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TRAFFIC SPEED REPORT NO. 88

OCTOBER 1970 - NUMBER 21



BY

S. S. HEJAL

JHRP

JOINT HIGHWAY RESEARCH PROJECT

PURDUE UNIVERSITY AND
INDIANA STATE HIGHWAY COMMISSION

TRAFFIC SPEED REPORT NO. 88

TO: J. F. McLaughlin, Director
Joint Highway Research Project

FROM: H. L. Michael, Associate Director
Joint Highway Research Project

October 28, 1970

File: 8-3-3

Project: C-36-100

The attached Progress Report No. 88 on Traffic Speeds is the report of the 1970 study of free-flowing automobile and truck speeds on rural, tangent, level sections of Interstate, other 4-lane and 2-lane highways in Indiana. The report has been prepared by Mr. Salim S. Hejal, a Graduate Instructor in Research on our staff, under the direction of Professor Michael. The data were collected by Messrs. G. K. Stafford and Bronson Luttrell of our staff.

The results indicate a decrease of about 2.4 mph in the average speed of all passenger cars and a decrease of about 2.0 mph for all heavy trucks to those speeds noted in the 1969 study. A good probability exists that the decrease noted this year was not a real one but resulted from sample variations of the two years. A regression analysis of the speed data for the past eleven years indicated that the speed trend for all classes of vehicles on all classes of highway studied is probably an increasing one. Average speeds for passenger cars over all classes of highway have increased 1.04 mph annually and for all heavy trucks over all classes of highway the increase has been 0.88 mph annually.

Copies of this report are requested for release to the Indiana State Police, the Indiana Traffic Safety Council and the Indiana Office of Traffic Safety as is normal procedure for these reports. Copies will also be sent to the Bureau of Public Roads and several Departments within the ISHC. The report is presented for the record and for release as noted.

Respectfully submitted,

Harold L. Michael

Harold L. Michael
Associate Director

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Progress Report

TRAFFIC SPEED REPORT NO. 88

by

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Graduate Instructor

Joint Highway Research Project

File No.: 8-3-3

Project No.: C-36-10C

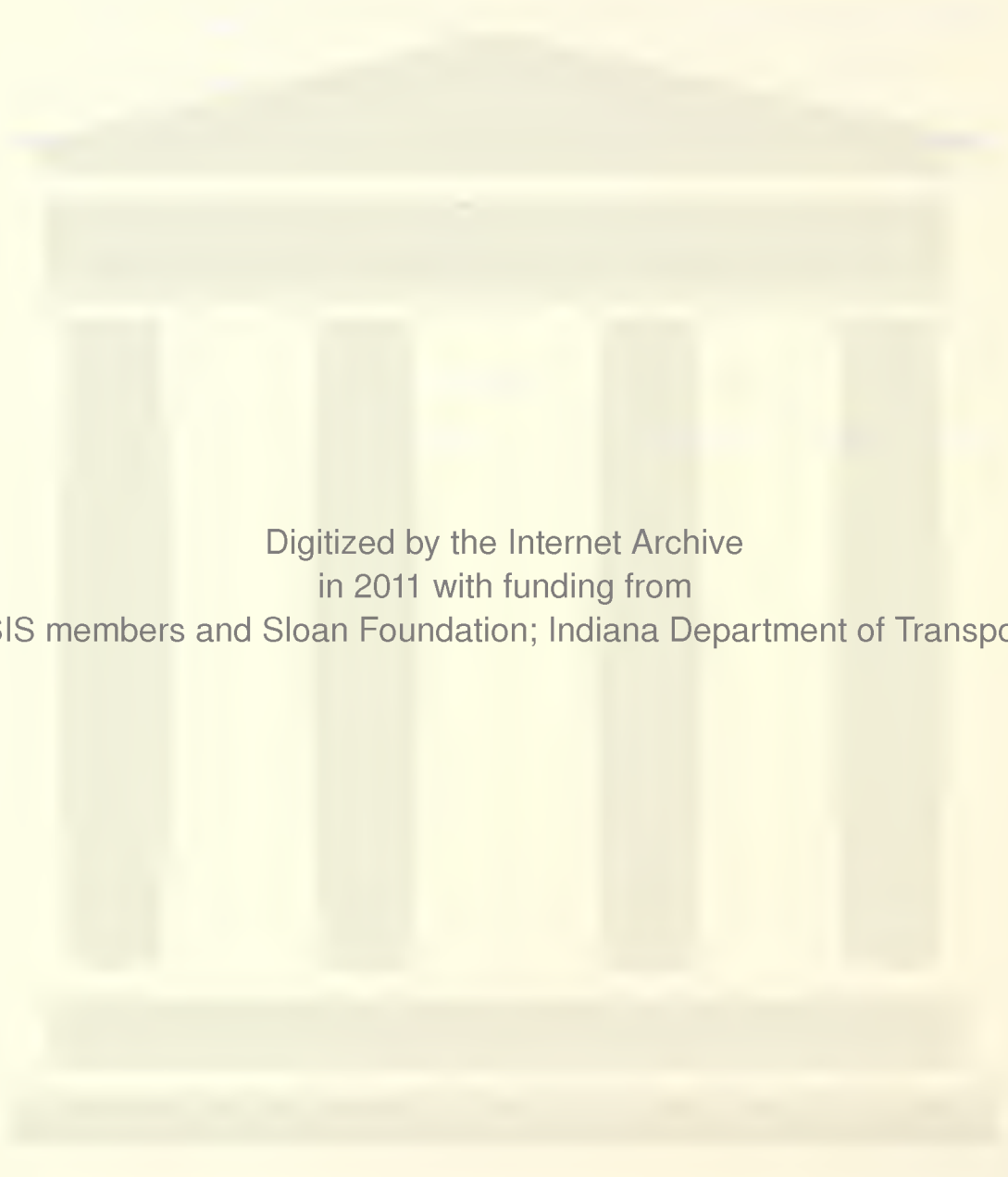
Purdue University
Lafayette, Indiana
October 28, 1970

ABSTRACT

This report is the annual continuing study of the speeds of vehicles on rural Indiana highways. Observations of spot speeds were taken on interstate, other four lane, and two lane highways throughout the state during the months of June, July and August, 1970.

Analysis of the speeds showed the over-all average speed for passenger cars was 65.5 miles per hour. The over-all average speeds for trucks on the three types of highways was 57.5 miles per hour.

A regression analysis on the available results of the past eleven years showed an annual increase of 1.04 miles per hour for the over-all average speed of passenger cars and 0.88 miles per hour for the over-all average speed of heavy trucks.



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TRAFFIC SPEED REPORT NO. 88

This report is an analysis of spot speed observations made during June, July and August, 1970. All observations were made of free-flowing vehicles on level, tangent sections of rural Indiana highways during daylight and under favorable weather conditions. The same locations on selected Federal and State highways as used in 1968 were used again, except in one case. Station 9 was relocated to U. S. 35. Old station 9 on U. S. 41 was no longer representative of two lane highways because the highway is being reconstructed as a four lane divided highway. The remaining locations have been the same for many years. Stations were classified as - two lane, four lane, or interstate highways. A representative sample of traffic speeds was obtained at each of the four stations in each classification. The specific site of each station was as follows: (see Figure A)

Interstate Highways

- | | |
|---------|--|
| 1. I-69 | 3.3 Miles South of Junction of S. R. 18 |
| 2. I-65 | 1.0 Miles West of Junction of S. R. 334 |
| 3. I-74 | 1.0 Mile East of Junction of Post Road |
| 4. I-65 | 2.9 Miles North of Junction of S. R. 160 |

Four Lane Highways

- | | |
|------------|---|
| 5. U.S. 31 | 1.2 Miles South of Junction of S. R. 38 |
| 6. U.S. 52 | 1.0 Mile East of Junction of S. R. 28 |
| 7. U.S. 41 | 1.0 Mile North of South Junction of S. R. 2 |
| 8. U.S. 52 | 1.0 Mile West of Klondike |

Two Lane Highways

- | | |
|-------------|------------------------------------|
| 9. U.S. 35 | 1.5 Miles East of Junction of I-69 |
| 10. S.R. 43 | 2.0 Miles South of Chalmers |
| 11. U.S. 31 | 3.0 Miles South of Rochester |
| 12. S.R. 25 | 0.7 Miles West of Americus |

The vehicles were classified as passenger cars or trucks. Passenger cars were further classified into two groups -- Indiana or Non-Indiana and the analysis was performed as thus classified and combined. The trucks were also classified into two groups - Light (less than 5000 pounds gross weight) or Heavy (equal to or more than 5000 pounds gross weight), and again the analysis was performed as classified and combined.

The maximum speed limits in Indiana are as follows: 70 miles per hour on interstate highways and 65 miles per hour on other highways, unless otherwise posted. The stated maximum speed limits were applicable at all interstate, four lane and two lane stations of this study.

Equipment and Field Procedure

The observations for this report were obtained by use of an "Electromatic" Radar Speed Meter, built by Automatic Signal Division, Eastman Industries, Inc., East Norwalk, Connecticut. The meter was placed approximately four feet from the edge of the pavement at an angle less than 10° with the highway center line. Speed inaccuracies are negligible at small angles (less than 10°) and therefore, corrections for angle were unnecessary.

At the beginning of the study the accuracy of the meter was checked; a constant discrepancy of minus two miles per hour was found and hence all readings of speed were corrected accordingly.

Results of Analysis

The data collected were analyzed and are summarized in Tables 1 to 12 in the Appendix. Tables 13, 14, and 15 summarize the data for the three types of facilities: interstate, four lane, and two lane. Table 16 is the summary for all facilities observed.

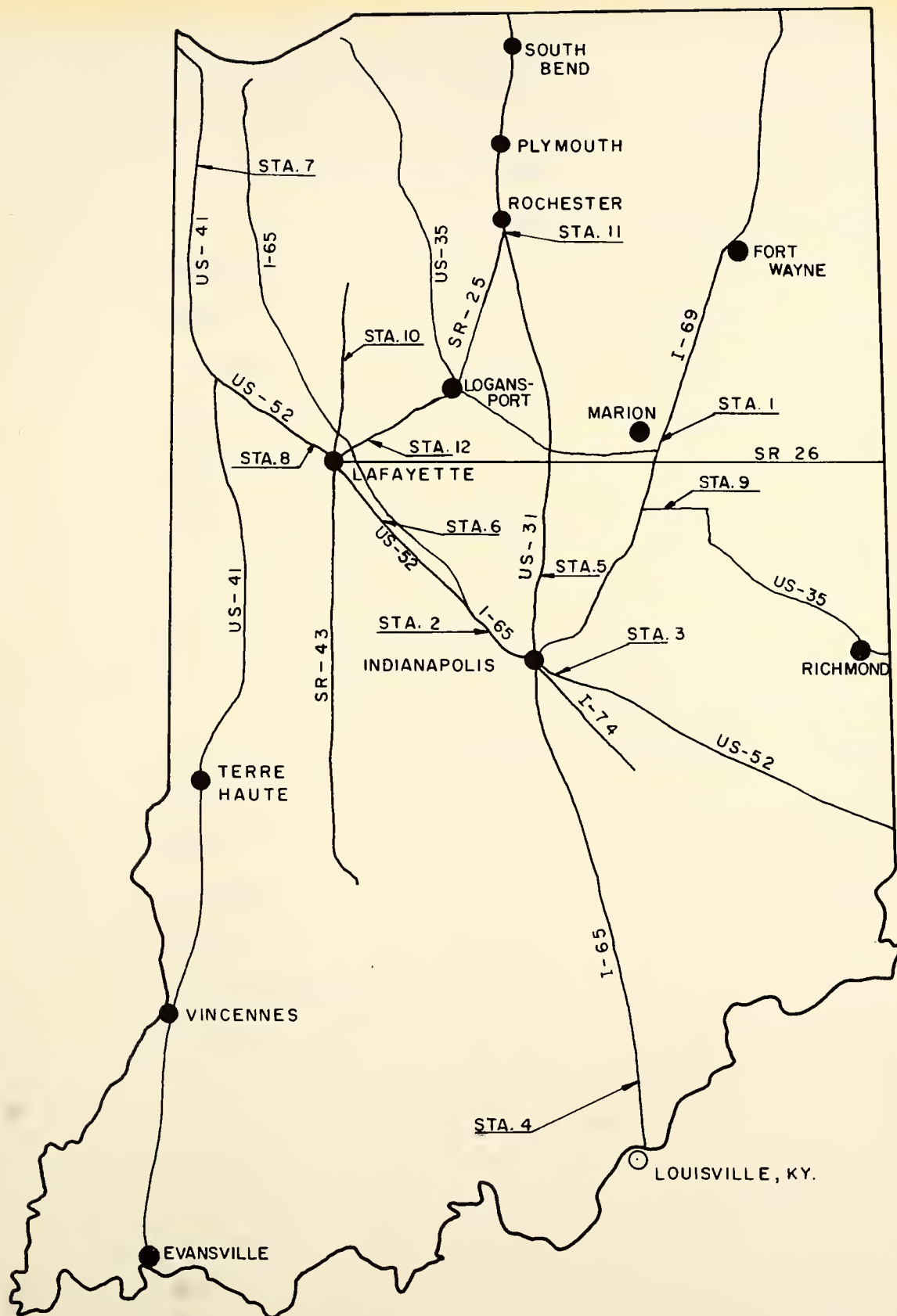


FIG. A - LOCATIONS OF SPEED-STUDY STATIONS

Figures 1 to 16 in the Appendix show the accumulative speed curves for each of the stations studied.

The average speed for each classification of vehicles on each type of highway for this study was as follows:

| | <u>Interstate</u> | <u>Four Lane</u> | <u>Two Lane</u> |
|------------------------|-------------------|------------------|-----------------|
| <u>Passenger Cars:</u> | | | |
| Indiana | 69.1 | 64.6 | 62.3 |
| Non-Indiana | 69.2 | 64.3 | 62.8 |
| 85 percentile (all) | 74.6 | 70.6 | 68.9 |
| <u>Trucks:</u> | | | |
| less than 5000 lbs. | 63.8 | 59.7 | 59.0 |
| 5000 lbs. or more | 59.6 | 55.0 | 54.8 |

The percent of vehicles exceeding the speed limit for each classification of vehicle and each type of highway was as follows:

| | <u>Interstate</u> | <u>Four Lane</u> | <u>Two Lane</u> |
|------------------------|-------------------|------------------|-----------------|
| <u>Passenger Cars:</u> | | | |
| Indiana | 41.2 | 43.7 | 32.2 |
| Non-Indiana | 43.0 | 42.3 | 33.6 |
| <u>Trucks:</u> | | | |
| less than 5000 lbs | 24.4 | 17.8 | 18.9 |
| 5000 lbs. or more | 1.4 | 2.8 | 2.5 |

The percent of vehicles traveling 5 miles per hour or more above the speed limit for each case was as follows:

| | <u>Interstate</u> | <u>Four Lane</u> | <u>Two Lane</u> |
|------------------------|-------------------|------------------|-----------------|
| <u>Passenger Cars:</u> | | | |
| Indiana | 14.6 | 18.4 | 12.0 |
| Non-Indiana | 11.3 | 16.2 | 13.6 |
| <u>Trucks:</u> | | | |
| less than 5000 lbs. | 4.9 | 5.9 | 13.4 |
| 5000 lbs. or more | 0.3 | 0.0 | 0.0 |

The results of this study and similar studies conducted since 1960 are tabulated in Table A. A linear regression analysis on these results was conducted and a summary is given in Table B.

The hypothesis $\beta = 0$, where β is the slope of the linear graph of speeds versus year (annual trend), was tested and it turned out significant for all classifications at the 5% level. A second hypothesis $\beta = 1.0$ was tested to draw limits on the annual trend. It was not significant for all the 9 cases, that is the slope is not significantly different than 1.0, mph/year for a 5% level of significance. Finally, the hypothesis $\beta = 1.5$ was tested, it was significant for all cases except for the 85%tile of interstate passenger cars.

A graphical representation of tables A and B is given in Figure B.

TABLE A
SUMMARY OF SPOT SPEED OBSERVATION
ON INDIANA HIGHWAYS

(Free-Moving Vehicles on Level, Tangent Sections)

| | | Passenger Cars | | | | Trucks | | |
|----------------------------|------|----------------|------------------|-------------|------------|---------------|---------------|-------------|
| | | Ind. Mean | Non-Ind. Mean | All Mean | All 85% | Light Mean | Heavy Mean | All Mean |
| Two-Lane Highways | | | | | | | | |
| Sept. | '60 | 55.7 | 55.6 | 55.6 | 62.0 | 53.0 | 48.1 | 49.1 |
| Aug. | '61 | 56.2 | 55.7 | 55.9 | 62.2 | 50.4 | 48.9 | 49.3 |
| Aug. | '62 | 56.7 | 57.5 | 57.0 | 63.7 | 53.1 | 49.3 | 50.1 |
| June | '63 | 56.9 | 57.7 | 57.2 | 64.0 | 52.3 | 47.9 | 49.7 |
| July | '64 | 59.1 | 60.1 | 59.5 | 66.6 | 53.9 | 51.7 | 52.4 |
| Sept. | '65 | 58.2 | 57.9 | 58.1 | 64.6 | 54.3 | 50.6 | 51.7 |
| Sept. | '66 | 60.1 | 59.5 | 59.9 | 65.5 | 55.4 | 50.8 | 52.0 |
| Aug. | '67 | 61.0 | 61.9 | 61.3 | 68.0 | 53.8 | 51.9 | 52.7 |
| June | '68 | 61.2 | 62.4 | 61.5 | 68.1 | 54.4 | 54.2 | 54.3 |
| July | '69 | 64.7 | 64.6 | 64.7 | 71.9 | 60.5 | 55.9 | 57.9 |
| July | '70 | 62.3 | 62.8 | 62.3 | 68.9 | 59.0 | 54.8 | 56.7 |
| Four-Lane Highways | | | | | | | | |
| Sept. | '60 | 59.5 | 60.2 | 59.7 | 65.8 | 54.8 | 51.3 | 52.0 |
| Aug. | '61 | 57.6 | 57.6 | 57.6 | 63.5 | 53.6 | 50.3 | 51.0 |
| Aug. | '62 | 59.2 | 59.3 | 59.2 | 65.8 | 54.7 | 51.3 | 51.9 |
| June | '63 | 60.4 | 60.6 | 60.5 | 66.3 | 55.0 | 48.6 | 51.3 |
| July | '64 | 61.4 | 63.0 | 62.0 | 69.4 | 55.1 | 54.5 | 54.7 |
| Sept. | '65 | 60.1 | 62.2 | 61.0 | 67.2 | 55.5 | 53.1 | 53.7 |
| Sept. | '66 | 63.1 | 64.3 | 63.5 | 69.0 | 58.7 | 52.8 | 54.2 |
| Aug. | '67 | 64.3 | 65.7 | 65.0 | 70.3 | 57.0 | 54.0 | 54.9 |
| June | '68 | 64.2 | 66.2 | 64.9 | 70.4 | 58.4 | 55.4 | 56.2 |
| July | '69 | 67.7 | 68.3 | 67.9 | 74.6 | 64.0 | 58.0 | 59.6 |
| July | '70 | 64.6 | 64.3 | 64.5 | 70.6 | 59.7 | 55.0 | 54.2 |
| Interstate Highways | | | | | | | | |
| Aug. | '61* | 56.7 | 56.9 | 58.2 | 64.0 | 55.9 | 51.5 | 52.4 |
| Aug. | '62 | 58.7 | 59.1 | 58.8 | 65.6 | 55.8 | 52.7 | 53.2 |
| June | '63 | 59.7 | 61.2 | 60.3 | 66.3 | 55.2 | 51.5 | 52.7 |
| July | '64 | 61.9 | 64.0 | 62.7 | 70.5 | 56.8 | 54.6 | 55.2 |
| Sept. | '65 | 61.2 | 62.1 | 61.5 | 67.7 | 54.9 | 53.6 | 53.9 |
| Sept. | '66 | 62.1 | 63.3 | 62.5 | 68.5 | 56.1 | 54.9 | 55.3 |
| Aug. | '67 | 66.4 | 68.3 | 67.1 | 73.6 | 60.0 | 56.9 | 57.5 |
| June | '68 | 66.2 | 67.9 | 66.8 | 72.4 | 60.5 | 57.9 | 58.5 |
| July | '69 | 70.2 | 71.2 | 70.6 | 76.6 | 65.3 | 59.9 | 61.4 |
| July | '70 | 69.1 | 69.2 | 69.2 | 74.6 | 63.8 | 59.6 | 60.5 |
| All Highways | | | | | | | | |
| Sept. | '60 | 57.3 | 57.6 | 57.4 | 63.7 | 53.7 | 49.4 | 50.2 |
| Aug. | '61 | 56.9 | 56.7 | 57.3 | 63.4 | 53.1 | 50.3 | 51.0 |
| Aug. | '62 | 58.2 | 58.7 | 58.4 | 65.1 | 54.5 | 51.2 | 51.8 |
| June | '63 | 59.0 | 59.9 | 59.3 | 65.2 | 54.1 | 49.5 | 51.2 |
| July | '64 | 60.8 | 62.4 | 61.5 | 69.2 | 55.2 | 53.7 | 54.1 |
| Sept. | '65 | 59.9 | 60.9 | 60.3 | 66.7 | 54.9 | 52.6 | 53.1 |
| Sept. | '66 | 61.8 | 62.4 | 62.0 | 68.0 | 56.7 | 52.7 | 53.8 |
| Aug. | '67 | 63.9 | 65.8 | 64.5 | 71.4 | 56.3 | 54.6 | 55.1 |
| June | '68 | 63.8 | 66.0 | 64.5 | 70.8 | 57.2 | 56.2 | 56.5 |
| July | '69 | 67.3 | 68.8 | 67.9 | 75.1 | 62.7 | 57.9 | 59.5 |
| July | '70 | 65.1 | 66.3 | 65.5 | 72.2 | 60.3 | 56.4 | 57.5 |

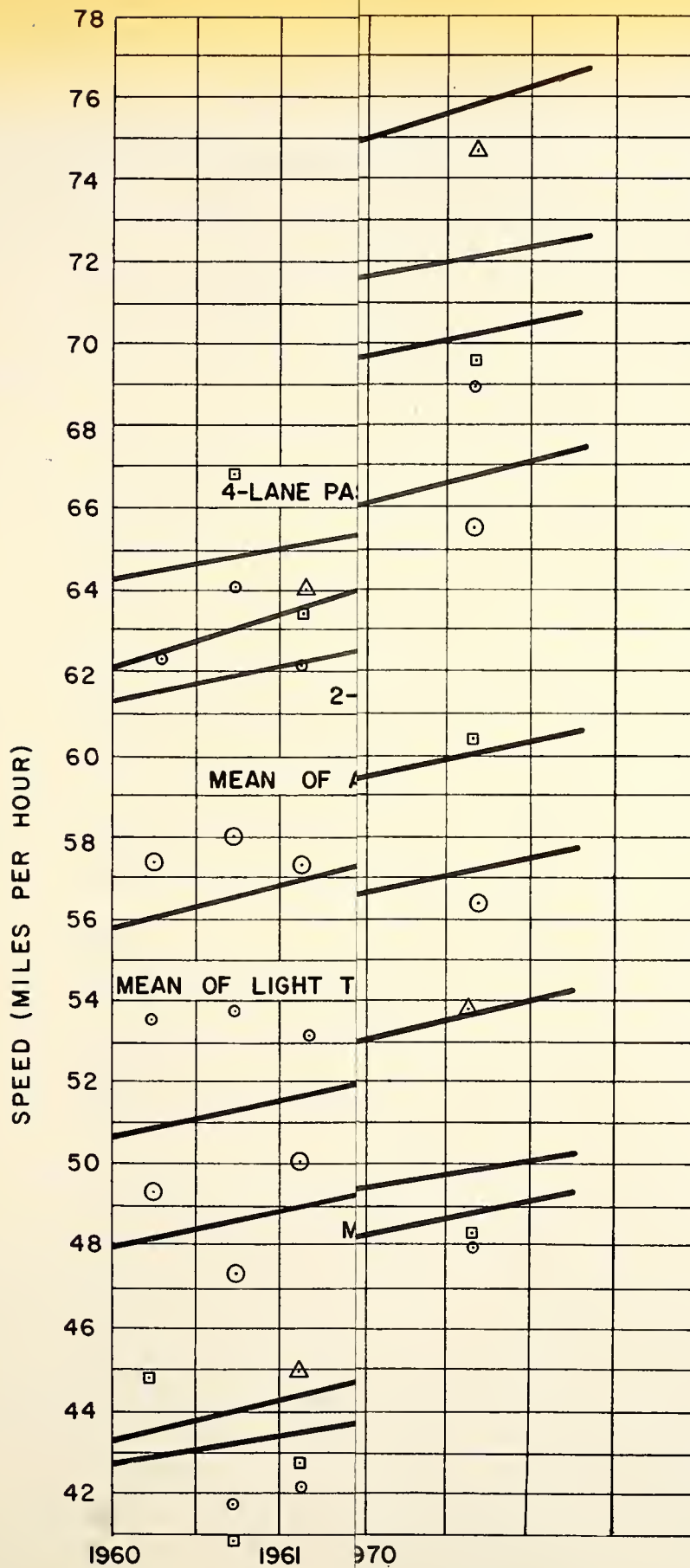
*Data was only for three stations on Interstate Highways

TABLE B. SUMMARY OF LINEAR REGRESSION ANALYSIS

| Classification | No. of Observ. | b_0 | b_1 | R^2 | S_{bl} | Hypothesis Testing | | |
|-------------------------------|----------------------|--------|-------|-------|----------|--------------------|---------------|---------------|
| | | | | | | $\beta = 0.0$ | $\beta = 1.0$ | $\beta = 1.5$ |
| Interstate Passenger Cars 85% | 10 | -14.57 | 1.291 | .858 | .186 | S* | ** NS | ** NS |
| 4 Lanes Passenger Cars 85% | 11 | 21.14 | .727 | .679 | .167 | S* | ** NS | * S |
| 2 Lanes Passenger Cars 85% | 11 | 11.22 | .843 | .845 | .120 | S* | ** NS | * S |
| Mean of All Passenger Cars | 11 | - 6.05 | 1.042 | .921 | .102 | S* | ** NS | * S |
| Mean of All Light Trucks | 11 | 0.30 | .858 | .824 | .132 | S* | ** NS | * S |
| Mean of All Heavy Trucks | 11 | - 4.07 | .878 | .876 | .110 | S* | ** NS | * S |
| Interstate Heavy Trucks 15% | 10 | -14.57 | .973 | .903 | .113 | S* | ** NS | * S |
| 4 Lanes Heavy Trucks 15% | 11 | 2.86 | .669 | .709 | .143 | S* | * S | * S |
| 2 Lanes Heavy Trucks 15% | 11 | -10.75 | .852 | .848 | .120 | S* | ** NS | * S |

* Significant @ 5% Level of Significance

** NS Not Significant @ 5% Level of Significance



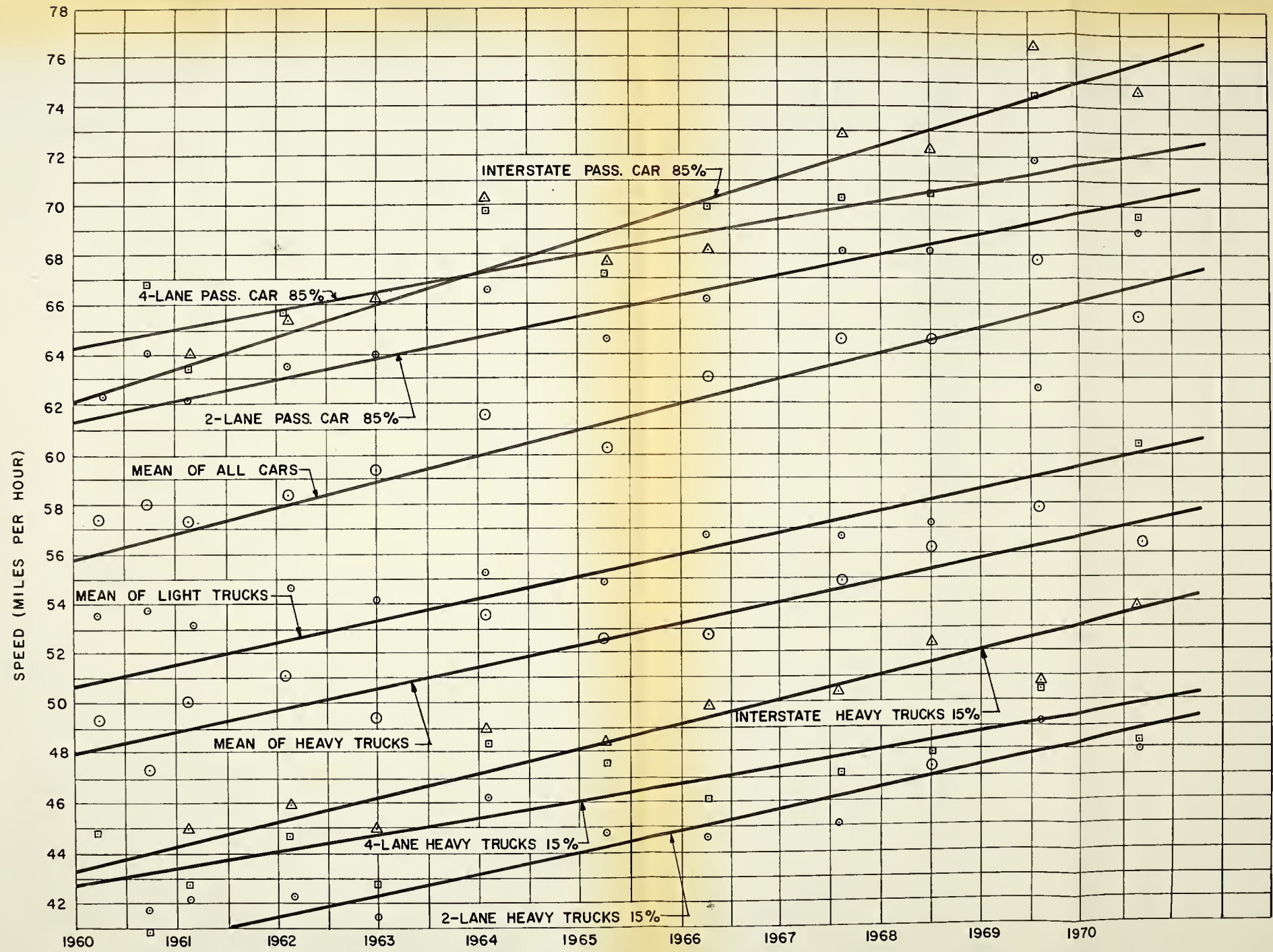


FIG. B - INDIANA RURAL SPEED TRENDS 1960-1970

Summary and Conclusions

The average speeds in this study were found to be 2.4 and 1.5 miles per hour slower for passenger cars and heavy trucks respectively than the results of the previous year.

The linear regression on the results of the past eleven years proved:

1. There has been a definite increase in speed for all vehicles and highway classifications studied. The slopes of the linear graphs were significantly different from zero for the nine different speed characteristics tested such as 85 percentiles, average speeds, and 15 percentiles for passenger cars, light trucks and heavy trucks on the three classes of highway.
2. The slopes of the linear graphs indicate the annual trends in speeds for the past decade. These trends are not significantly different from a rate of increase of one mile per hour per year.
3. The 85 percentile of passenger cars on the Interstate System was the only speed statistic not to be significant from an annual rate of increase of 1.5 miles per hour.

The increase in the mileage of high type facility highways such as the Interstate System in Indiana and the growing percentage of automobiles violating current maximum speed limits tend to support the fact that drivers select the travel speeds they consider safe irrespective of maximum speed limits.

APPENDIX

Determination of Sample Size

It was desired that a 95% confidence interval of the true mean of the speeds of passenger cars should not be wider than two miles per hour. For trucks weighing 5,000 lbs. or more a 95% confidence interval with a four mile per hour band was desired.

Assuming a normal distribution of speeds and using the standard deviation of the grouped data of the 1969 study, the minimum sample size requirements was determined by:

$$N = \left[\frac{2t S}{L} \right]^2$$

N = sample size required

t = tabulated "t" value for 5/2 significance

S = estimated standard deviation

L = width of the interval

For passenger cars:

$$N = \left[\frac{2 \times 1.96 \times 8.0}{2} \right]^2 = 246 \text{ observations}$$

For trucks:

$$N = \left[\frac{2 \times 1.96 \times 7.0}{4} \right]^2 = 47 \text{ observations}$$

Note

At all but one station more than 251 passenger car observations and 54 heavy truck observations were obtained for the study reported herein.

TABLE 1 SPEED DATA

Station 1 Highway I-69 Location 3.3 Miles South of S.R. 18 Weather Sunny
 No. of Lanes 4 This Observation Portland Cement Concrete Last Previous Observation (Speed Report No. 87)
 Date August 6, 1970 Date August 13, 1969
 Time 10:25 - 12:20 p.m. Time 11:40 - 2:15 p.m.

| PASSENGER CARS | | | | | | | | | | TRUCKS | | | | | |
|------------------------|-------|---------|---------|---------|-------------|---------|-------|---------|-----------------------|---------|---------------------|---------|--|--|--|
| | All | | Indiana | | Non-Indiana | | All | | Less than 5000 pounds | | 5000 pounds or more | | | | |
| | Last | Present | Last | Present | Last | Present | Last | Present | Last | Present | Last | Present | | | |
| OBSERVATION | | | | | | | | | | | | | | | |
| No. of vehicles obs. | 248 | 256 | 147 | 180 | 101 | 76 | 84 | 88 | 20 | 21 | 64 | 67 | | | |
| Average speed (m.p.h.) | 71.90 | 68.25 | 71.3 | 68.51 | 72.8 | 67.63 | 61.24 | 60.68 | 66.3 | 64.43 | 59.7 | 59.51 | | | |
| Standard deviation | 7.01 | 6.373 | 6.77 | 6.707 | 7.27 | 5.494 | 6.96 | 6.223 | 7.08 | 5.996 | 6.16 | 5.855 | | | |
| 24 m.p.h. | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | |
| 29 m.p.h. | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | |
| 34 m.p.h. | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | |
| 39 m.p.h. | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.14 | 0.0 | 0.0 | 0.0 | 1.49 | | | |
| 44 m.p.h. | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.14 | 0.0 | 0.0 | 0.0 | 1.49 | | | |
| 49 m.p.h. | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.6 | 2.27 | 0.0 | 0.0 | 4.7 | 2.99 | | | |
| 54 m.p.h. | 0.8 | 1.56 | 0.0 | 1.11 | 2.0 | 2.63 | 15.5 | 18.18 | 5.0 | 9.52 | 18.8 | 20.90 | | | |
| 59 m.p.h. | 5.24 | 9.38 | 6.1 | 10.00 | 4.0 | 7.89 | 41.7 | 39.77 | 15.0 | 19.05 | 50.0 | 46.27 | | | |
| 64 m.p.h. | 12.9 | 24.22 | 12.9 | 23.89 | 12.9 | 25.00 | 64.3 | 71.59 | 35.0 | 38.10 | 73.4 | 82.09 | | | |
| 69 m.p.h. | 35.9 | 59.38 | 41.5 | 57.78 | 27.7 | 63.16 | 89.3 | 94.32 | 70.0 | 85.71 | 95.3 | 97.01 | | | |
| 74 m.p.h. | 64.5 | 87.89 | 70.1 | 84.44 | 56.4 | 96.05 | 95.2 | 100.0 | 85.0 | 100.0 | 98.4 | 100.0 | | | |
| 79 m.p.h. | 86.3 | 96.48 | 89.8 | 95.56 | 81.2 | 98.68 | 98.8 | 100.0 | 95.0 | 100.0 | 100 | 100.0 | | | |
| 84 m.p.h. | 96.4 | 99.22 | 98 | 98.89 | 95.1 | 100.0 | 100 | 100.0 | 100 | 100.0 | 100 | 100.0 | | | |
| 89 m.p.h. | 99.6 | 99.61 | 99.3 | 99.44 | 100 | 100.0 | 100 | 100.0 | 100 | 100.0 | 100 | 100.0 | | | |
| No. of vehicles obs. | 127 | 128 | 77 | 93 | 50 | 35 | 43 | 43 | 9 | 12 | 34 | 31 | | | |
| Average speed | 73.2 | 69.42 | 72.7 | 69.80 | 73.9 | 68.43 | 61.8 | 63.28 | 64.0 | 65.00 | 61.2 | 62.61 | | | |
| No. of vehicles obs. | 121 | 128 | 70 | 87 | 51 | 41 | 41 | 45 | 11 | 9 | 30 | 36 | | | |
| Average speed | 70.6 | 67.08 | 69.8 | 67.14 | 71.8 | 66.95 | 60.7 | 58.20 | 68.2 | 63.67 | 57.93 | 56.83 | | | |

TABLE 2 SPEED DATA

Station 2 Highway I-65 Location 1.0 Mile West of S.R. 334
 No. of Lanes 4 Type of Surface Portland Cement Concrete Weather Fair
 This Observation Last Previous Observation (Speed Report No. 87)
 Date July 17, 1970 Date August 8, 1969
 Time 11:10 - 1:05 p.m. Time 2:25 - 4:00 p.m.

| PASSENGER CARS | | | | | | | | | | TRUCKS | | | | | |
|------------------------|-------|---------|--|---------|---------|-------------|---------|-------|---------|--------|---------|-----------------------|---------|---------------------|---------|
| OBSERVATION | All | | | Indiana | | Non-Indiana | | | | All | | Less than 5000 pounds | | 5000 pounds or more | |
| | Last | Present | | Last | Present | Last | Present | Last | Present | Last | Present | Last | Present | Last | Present |
| No. of vehicles obs. | 315 | 317 | | 210 | 197 | 105 | 120 | 86 | 89 | 26 | 18 | 60 | 71 | | |
| Average speed (m.p.h.) | 70.32 | 69.0 | | 70.1 | 68.97 | 70.7 | 69.06 | 61.2 | 60.18 | 66.0 | 62.39 | 59.2 | 59.62 | | |
| Standard deviation | 6.89 | 6.844 | | 7.14 | 7.275 | 6.36 | 6.099 | 8.93 | 6.631 | 9.45 | 9.900 | 7.93 | 5.468 | | |
| 24 m.p.h. | 0.0 | 0.0 | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| 29 m.p.h. | 0.0 | 0.0 | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| 34 m.p.h. | 0.0 | 0.0 | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| 39 m.p.h. | 0.0 | 0.0 | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.12 | 0.0 | 5.56 | 0.0 | 0.0 | | |
| 44 m.p.h. | 0.0 | 0.0 | | 0.0 | 0.0 | 0.0 | 0.0 | 3.5 | 1.12 | 3.8 | 5.56 | 3.3 | 0.0 | | |
| 49 m.p.h. | 0.0 | 0.32 | | 0.0 | 0.0 | 0.0 | 0.83 | 10.5 | 4.49 | 3.8 | 11.11 | 13.3 | 2.82 | | |
| 54 m.p.h. | 0.6 | 2.21 | | 0.5 | 2.03 | 1.0 | 2.50 | 24.4 | 17.98 | 11.5 | 16.67 | 30.0 | 18.31 | | |
| 59 m.p.h. | 7.9 | 8.52 | | 8.1 | 9.64 | 7.6 | 6.67 | 39.5 | 42.70 | 23.1 | 27.78 | 46.7 | 46.48 | | |
| 64 m.p.h. | 18.1 | 22.71 | | 19.5 | 25.89 | 15.2 | 17.50 | 62.8 | 74.16 | 42.3 | 50.0 | 71.7 | 80.28 | | |
| 69 m.p.h. | 41.3 | 51.74 | | 41.9 | 51.78 | 40.0 | 51.67 | 81.4 | 94.38 | 53.8 | 77.78 | 93.3 | 98.59 | | |
| 74 m.p.h. | 73.0 | 82.33 | | 74.3 | 81.22 | 70.5 | 84.17 | 93.0 | 97.75 | 76.9 | 94.44 | 100 | 98.59 | | |
| 79 m.p.h. | 93.6 | 94.01 | | 94.3 | 92.89 | 92.4 | 95.83 | 98.8 | 98.88 | 96.2 | 94.44 | 100 | 100.0 | | |
| 84 m.p.h. | 97.1 | 98.11 | | 96.7 | 96.95 | 98.1 | 100.0 | 98.8 | 100.0 | 96.2 | 100.0 | 100 | 100.0 | | |
| 89 m.p.h. | 99.0 | 99.37 | | 98.6 | 98.98 | 100 | 100.0 | 100 | 100.0 | 100 | 100.0 | 100 | 100.0 | | |
| No. of vehicles obs. | 159 | 158 | | 114 | 92 | 45 | 66 | 33 | 41 | 7 | 6 | 26 | 35 | | |
| Average speed | 69.6 | 68.42 | | 69.3 | 68.05 | 70.4 | 68.92 | 58.4 | 58.90 | 67.6 | 62.50 | 56.0 | 58.29 | | |
| No. of vehicles obs. | 156 | 159 | | 96 | 105 | 60 | 54 | 53 | 48 | 19 | 12 | 34 | 36 | | |
| Average speed | 71.1 | 69.58 | | 71.1 | 69.77 | 71.0 | 69.22 | 62.96 | 61.27 | 65.4 | 62.33 | 61.6 | 60.92 | | |

TABLE 3 SPEED DATA

Station 3 Highway I-74 Location 1.0 Mile East of Post Road Weather Cloudy
 No. of Lanes 4 Type of Surface Portland Cement Concrete Last Previous Observation (Speed Report No. 87)
 Date August 7, 1970 Date August 15, 1969
 Time 9:45 - 11:35 a.m. Time 9:50 - 12:00 p.m.

| PASSENGER CARS | | | | | | | | | | TRUCKS | | | | | |
|------------------------|-------|---------|--|---------|---------|-------------|---------|-------|---------|--------|---------|-----------------------|---------|---------------------|---------|
| OBSERVATION | All | | | Indiana | | Non-Indiana | | | | All | | Less than 5000 pounds | | 5000 pounds or more | |
| | Last | Present | | Last | Present | Last | Present | Last | Present | Last | Present | Last | Present | Last | Present |
| No. of vehicles obs. | 264 | 276 | | 144 | 186 | 120 | 90 | 77 | 103 | 24 | 24 | 53 | 79 | | |
| Average speed (m.p.h.) | 70.19 | 68.65 | | 69.6 | 68.47 | 70.8 | 69.02 | 61.60 | 61.03 | 64.6 | 65.29 | 60.2 | 59.73 | | |
| Standard deviation | 7.41 | 6.728 | | 7.96 | 6.945 | 6.65 | 6.275 | 7.19 | 7.092 | 7.44 | 8.844 | 6.71 | 5.952 | | |
| 24 m.p.h. | 0.0 | 0.0 | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| 29 m.p.h. | 0.0 | 0.0 | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| 34 m.p.h. | 0.0 | 0.0 | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| 39 m.p.h. | 0.0 | .36 | | 0.0 | .54 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| 44 m.p.h. | 0.4 | .36 | | 0.7 | .54 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| 49 m.p.h. | 1.5 | .72 | | 2.1 | 1.08 | 0.8 | 0.0 | 0.0 | .97 | 0.0 | 0.0 | 0.0 | 1.27 | | |
| 54 m.p.h. | 3.4 | 3.26 | | 4.9 | 3.23 | 1.7 | 3.33 | 3.9 | 6.80 | 4.2 | 8.33 | 3.8 | 6.33 | | |
| 59 m.p.h. | 5.7 | 7.61 | | 6.2 | 8.06 | 5.0 | 6.67 | 16.9 | 15.53 | 8.3 | 12.50 | 20.8 | 16.46 | | |
| 64 m.p.h. | 18.6 | 22.83 | | 20.1 | 24.19 | 16.7 | 20.00 | 36.4 | 39.81 | 20.8 | 25.00 | 43.4 | 44.30 | | |
| 69 m.p.h. | 46.6 | 52.90 | | 51.4 | 54.30 | 40.8 | 50.00 | 66.2 | 70.87 | 45.8 | 41.67 | 75.5 | 79.75 | | |
| 74 m.p.h. | 70.8 | 84.42 | | 73.6 | 84.95 | 67.5 | 83.33 | 87.0 | 89.32 | 75.0 | 58.33 | 92.4 | 98.73 | | |
| 79 m.p.h. | 93.2 | 95.65 | | 93.1 | 96.24 | 93.3 | 94.44 | 96.1 | 97.09 | 91.7 | 87.50 | 98.1 | 100.00 | | |
| 84 m.p.h. | 98.1 | 99.28 | | 97.2 | 98.92 | 99.2 | 100.0 | 100 | 100.0 | 100 | 100.0 | 100 | 100.00 | | |
| 89 m.p.h. | 98.9 | 99.64 | | 97.9 | 99.46 | 100 | 100.0 | 100 | 100.0 | 100 | 100.0 | 100 | 100.0 | | |
| No. of vehicles obs. | 131 | 135 | | 74 | 101 | 57 | 34 | 43 | 51 | 13 | 13 | 30 | 38 | | |
| Average speed | 69.2 | 69.13 | | 69.4 | 69.27 | 69.0 | 68.74 | 62.5 | 60.73 | 66.7 | 65.00 | 60.7 | 59.26 | | |
| No. of vehicles obs. | 133 | 141 | | 70 | 85 | 63 | 56 | 34 | 52 | 11 | 11 | 23 | 41 | | |
| Average speed | 71.1 | 68.19 | | 69.9 | 67.53 | 72.5 | 69.20 | 60.41 | 61.33 | 62.1 | 65.64 | 59.6 | 60.17 | | |

TABLE 4 SPEED DATA

Station 4 Highway I-65 Location 7.5 Miles North of S. R. 160

No. of Lanes 4 Type of Surface Portland Cement Concrete Weather Sunny
 This Observation Last Previous Observation (Speed Report No. 87)
 Date August 4, 1970 Date August 14, 1970
 Time 11:25 - 2:55 p.m. Time 1:15 - 2:30 p.m.

| | | PASSENGER CARS | | | | | | TRUCKS | | | | | |
|---|------------------------|----------------|---------|---------|---------|-------------|---------|--------|---------|-----------------------|---------|---------------------|---------|
| | | All | | Indiana | | Non-Indiana | | All | | Less than 5000 pounds | | 5000 pounds or more | |
| OBSERVATION | | Last | Present | Last | Present | Last | Present | Last | Present | Last | Present | Last | Present |
| All vehicles at or less than 24 or vehicles traveling | No. of vehicles obs. | 283 | 289 | 114 | 131 | 169 | 158 | 104 | 108 | 26 | 19 | 78 | 89 |
| | Average speed (m.p.h.) | 70.25 | 70.62 | 69.6 | 71.13 | 70.7 | 70.19 | 61.38 | 60.05 | 64.6 | 62.74 | 60.3 | 59.47 |
| | Standard deviation | 6.91 | 6.624 | 7.28 | 7.049 | 6.63 | 6.242 | 7.96 | 6.081 | 8.34 | 7.716 | 7.57 | 5.558 |
| | 24 m.p.h. | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | 29 m.p.h. | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | 34 m.p.h. | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | 39 m.p.h. | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | 44 m.p.h. | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.9 | .93 | 0.0 | 0.0 | 2.6 | 1.12 |
| | 49 m.p.h. | 0.4 | .69 | 0.9 | 0.0 | 0.0 | 1.27 | 7.7 | 2.78 | 3.8 | 0.0 | 9.0 | 3.37 |
| | 54 m.p.h. | 1.4 | 1.04 | 1.8 | .76 | 1.2 | 1.27 | 18.3 | 18.52 | 3.8 | 10.53 | 23.1 | 20.22 |
| Bound | 59 m.p.h. | 7.1 | 5.19 | 7.9 | 6.87 | 6.5 | 3.80 | 34.6 | 45.37 | 26.9 | 42.11 | 37.2 | 46.07 |
| | 64 m.p.h. | 18.0 | 14.88 | 20.2 | 15.27 | 16.6 | 14.56 | 66.4 | 75.93 | 57.7 | 57.89 | 69.2 | 79.78 |
| | 69 m.p.h. | 44.2 | 41.18 | 50.0 | 36.64 | 40.2 | 44.94 | 86.5 | 93.52 | 73.1 | 73.68 | 91.0 | 97.75 |
| | 74 m.p.h. | 73.1 | 77.51 | 75.4 | 73.28 | 71.6 | 81.01 | 95.2 | 99.07 | 88.5 | 94.74 | 97.4 | 100.0 |
| | 79 m.p.h. | 92.2 | 91.35 | 91.2 | 90.08 | 92.9 | 92.41 | 98.1 | 100.0 | 92.3 | 100.0 | 100 | 100.0 |
| | 84 m.p.h. | 97.9 | 97.92 | 97.4 | 96.95 | 98.2 | 98.73 | 100 | 100.0 | 100 | 100.0 | 100 | 100.0 |
| | 89 m.p.h. | 98.9 | 98.96 | 99.1 | 97.71 | 98.8 | 100.0 | 100 | 100.0 | 100 | 100.0 | 100 | 100.0 |
| | No. of vehicles obs. | 141 | 144 | 62 | 55 | 79 | 89 | 61 | 54 | 13 | 9 | 48 | 45 |
| | Average speed | 70.5 | 69.78 | 70.1 | 70.60 | 70.9 | 69.28 | 62.1 | 59.41 | 65.8 | 61.22 | 61.1 | 59.04 |
| | No. of vehicles obs. | 142 | 145 | 52 | 76 | 90 | 69 | 43 | 54 | 13 | 10 | 30 | 44 |
| | Average speed | 70.0 | 71.44 | 69.1 | 71.51 | 70.5 | 71.36 | 60.4 | 60.69 | 63.5 | 64.10 | 59.0 | 59.91 |

TABLE 5 SPEED DATA

Station 5 Highway U. S. 31 Location 1.2 Miles South of S. R. 38

No. of Lanes 4 Type of Surface Asphalt Concrete Weather Hazy

This Observation July 28, 1970 Last Previous Observation (Speed Report No. 87)

Date July 28, 1969

Time 10:00 - 12:20 p.m. Time 12:35 - 5:15 p.m.

| | | PASSENGER CARS | | | | | | TRUCKS | | | | | |
|---------------------------------|------------------------|----------------|---------|---------|---------|-------------|---------|--------|---------|-----------------------|---------|---------------------|---------|
| | | All | | Indiana | | Non-Indiana | | All | | Less than 5000 pounds | | 5000 pounds or more | |
| OBSERVATION | | Last | Present | Last | Present | Last | Present | Last | Present | Last | Present | Last | Present |
| All Vehicles at or less than | No. of vehicles obs. | 289 | 294 | 243 | 246 | 46 | 48 | 109 | 108 | 42 | 43 | 67 | 65 |
| | Average speed (m.p.h.) | 69.21 | 65.40 | 69.2 | 65.64 | 69.2 | 64.15 | 61.52 | 57.79 | 65.9 | 59.98 | 58.8 | 56.34 |
| | Standard deviation | 7.13 | 7.444 | 7.35 | 7.575 | 5.92 | 6.665 | 8.15 | 8.214 | 8.74 | 9.819 | 6.43 | 6.648 |
| | 24 m.p.h. | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | 29 m.p.h. | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | 34 m.p.h. | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | .93 | 0.0 | 2.33 | 0.0 | 0.0 |
| | 39 m.p.h. | 0.0 | .68 | 0.0 | .81 | 0.0 | 0.0 | 0.0 | 2.78 | 0.0 | 2.33 | 0.0 | 3.08 |
| | 44 m.p.h. | 0.0 | 1.02 | 0.0 | 1.22 | 0.0 | 0.0 | 0.9 | 8.33 | 0.0 | 11.63 | 1.5 | 6.15 |
| | 49 m.p.h. | 0.4 | 2.04 | 0.4 | 2.03 | 0.0 | 2.08 | 5.5 | 13.89 | 4.8 | 11.63 | 6.0 | 15.38 |
| | 54 m.p.h. | 2.1 | 5.44 | 2.5 | 5.28 | 0.0 | 6.25 | 18.4 | 28.70 | 9.5 | 18.60 | 23.9 | 35.38 |
| Bound | 59 m.p.h. | 10.4 | 17.35 | 12.4 | 16.26 | 0.0 | 22.92 | 45.0 | 53.70 | 21.4 | 46.51 | 59.7 | 58.46 |
| | 64 m.p.h. | 22.2 | 43.20 | 23.0 | 42.68 | 17.4 | 45.83 | 62.4 | 85.19 | 45.2 | 69.77 | 73.1 | 95.38 |
| | 69 m.p.h. | 52.2 | 73.47 | 50.6 | 72.76 | 60.9 | 77.08 | 83.5 | 95.37 | 64.3 | 88.37 | 95.5 | 100.0 |
| | 74 m.p.h. | 78.6 | 89.80 | 77.4 | 88.62 | 84.8 | 95.83 | 92.7 | 98.15 | 83.3 | 95.35 | 98.5 | 100.0 |
| | 79 m.p.h. | 92.7 | 97.28 | 93.0 | 97.15 | 91.3 | 97.92 | 98.2 | 99.07 | 95.2 | 97.67 | 100 | 100.0 |
| | 84 m.p.h. | 98.3 | 99.32 | 97.9 | 99.19 | 100 | 100.0 | 99.1 | 100.0 | 97.6 | 100.0 | 100 | 100.0 |
| | 89 m.p.h. | 100 | 100.0 | 100 | 100.0 | 100 | 100.0 | 100 | 100.0 | 100 | 100.0 | 100 | 100.0 |
| | No. of vehicles obs. | 151 | 148 | 127 | 123 | 24 | 25 | 68 | 54 | 29 | 14 | 39 | 40 |
| | Average speed | 70.3 | 65.84 | 70.5 | 66.02 | 69.5 | 64.92 | 62.9 | 59.69 | 65.7 | 63.86 | 60.9 | 58.22 |
| | No. of vehicles obs. | 138 | 146 | 116 | 123 | 22 | 23 | 41 | 54 | 13 | 29 | 28 | 25 |
| | Average speed | 68.0 | 64.95 | 67.9 | 65.26 | 68.8 | 63.30 | 59.2 | 55.89 | 66.5 | 58.10 | 55.8 | 53.32 |

TABLE 6 SPEED DATA

Station 6 Highway U.S. 52 Location 1.0 Mile East of S.R. 28 Weather Partly Cloudy
 No. of Lanes 4 Type of Surface Asphaltic Concrete Last Previous Observation (Speed Report No. 87)
 Date July 14, 1970 Date July 31, 1969
 Time 8:53 - 11:10 a.m. Time 9:45 - 12:30 p.m.

| | | PASSENGER CARS | | | | | | TRUCKS | | | | | |
|---------------------------------|------------------------|----------------|---------|---------|---------|-------------|---------|--------|---------|-----------------------|---------|---------------------|---------|
| | | All | | Indiana | | Non-Indiana | | All | | Less than 5000 pounds | | 5000 pounds or more | |
| OBSERVATION | | Last | Present | Last | Present | Last | Present | Last | Present | Last | Present | Last | Present |
| All vehicles at or less than | No. of vehicles obs. | 251 | 257 | 124 | 152 | 127 | 105 | 137 | 141 | 35 | 32 | 102 | 109 |
| | Average speed (m.p.h.) | 70.20 | 65.66 | 70.6 | 65.52 | 69.8 | 65.86 | 61.19 | 57.79 | 64.8 | 62.81 | 59.9 | 56.32 |
| | Standard deviation | 6.33 | 6.214 | 6.49 | 6.559 | 6.16 | 5.702 | 6.44 | 5.894 | 6.85 | 4.504 | 5.83 | 5.436 |
| | 24 m.p.h. | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | 29 m.p.h. | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | 34 m.p.h. | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | 39 m.p.h. | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.7 | 0.0 | 0.0 | 0.0 | 1.0 | 0.0 |
| | 44 m.p.h. | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.7 | .71 | 0.0 | 0.0 | 1.0 | .92 |
| | 49 m.p.h. | 0.4 | 1.56 | 0.0 | 1.97 | 0.8 | .95 | 2.9 | 7.80 | 2.9 | 0.0 | 2.9 | 10.09 |
| | 54 m.p.h. | 1.2 | 4.28 | 0.0 | 5.26 | 2.4 | 2.86 | 15.3 | 31.21 | 14.3 | 3.13 | 15.7 | 39.45 |
| Bound | 59 m.p.h. | 5.6 | 13.23 | 5.6 | 15.79 | 5.5 | 9.52 | 38.7 | 59.57 | 22.9 | 18.75 | 44.1 | 71.56 |
| | 64 m.p.h. | 14.3 | 40.08 | 14.5 | 42.11 | 14.2 | 37.14 | 66.4 | 85.82 | 31.4 | 68.75 | 78.4 | 90.83 |
| | 69 m.p.h. | 43.0 | 74.32 | 44.4 | 73.03 | 41.7 | 76.19 | 92.7 | 97.87 | 77.1 | 90.63 | 98.0 | 100.0 |
| | 74 m.p.h. | 78.9 | 93.77 | 75.0 | 92.76 | 82.7 | 95.24 | 98.5 | 100.0 | 94.3 | 100.0 | 100 | 100.0 |
| | 79 m.p.h. | 92.8 | 97.67 | 91.1 | 96.71 | 94.5 | 99.05 | 100 | 100.0 | 100 | 100.0 | 100 | 100.0 |
| | 84 m.p.h. | 98.8 | 99.61 | 97.6 | 100.0 | 100 | 99.05 | 100 | 100.0 | 100 | 100.0 | 100 | 100.0 |
| | 89 m.p.h. | 100 | 100.0 | 100 | 100.0 | 100 | 100.0 | 100 | 100.0 | 100 | 100.0 | 100 | 100.0 |
| | No. of vehicles obs. | 123 | 127 | 62 | 78 | 61 | 49 | 75 | 70 | 25 | 18 | 50 | 52 |
| | Average speed | 71.2 | 65.69 | 71.4 | 65.29 | 71.0 | 66.31 | 63.4 | 58.11 | 65.8 | 62.83 | 62.2 | 56.48 |
| | No. of vehicles obs. | 128 | 130 | 62 | 74 | 66 | 56 | 62 | 71 | 10 | 14 | 52 | 57 |
| | Average speed | 69.2 | 65.63 | 69.9 | 65.76 | 68.6 | 65.46 | 58.6 | 57.48 | 62.5 | 62.79 | 57.8 | 56.18 |

TABLE 7 SPEED DATA

Station 7 Highway U.S. 41 Location 1.0 Mile North of S.R. 2
 No. of Lanes 4 Type of Surface Portland Cement Concrete Weather Clear
 This Observation Last Previous Observation (Speed Report No. 87)
 Date July 22, 1970 Date August 6, 1969
 Time 10:05 - 1:40 p.m. Time 10:45 - 2:15 p.m.

| | | PASSENGER CARS | | | | | | TRUCKS | | | | | |
|---|------------------------|----------------|---------|---------|---------|-------------|---------|--------|---------|-----------------------|---------|---------------------|---------|
| | | All | | Indiana | | Non-Indiana | | All | | Less than 5000 pounds | | 5000 pounds or more | |
| OBSERVATION | | Last | Present | Last | Present | Last | Present | Last | Present | Last | Present | Last | Present |
| All Vehicles at or less than % of vehicles travelling | No. of vehicles obs. | 254 | 254 | 136 | 143 | 118 | 111 | 129 | 128 | 26 | 29 | 103 | 99 |
| | Average speed (m.p.h.) | 66.95 | 63.51 | 65.9 | 63.76 | 68.2 | 63.18 | 56.04 | 53.84 | 61.2 | 58.59 | 54.7 | 52.45 |
| | Standard deviation | 8.16 | 7.260 | 8.14 | 7.523 | 8.04 | 6.927 | 7.92 | 7.095 | 8.99 | 8.175 | 7.09 | 6.127 |
| | 24 m.p.h. | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | 29 m.p.h. | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | 34 m.p.h. | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | 39 m.p.h. | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.3 | 1.56 | 0.0 | 0.0 | 2.9 | 2.02 |
| | 44 m.p.h. | 1.6 | .39 | 0.7 | 0.0 | 2.5 | .90 | 7.0 | 8.59 | 3.8 | 6.90 | 7.8 | 9.09 |
| | 49 m.p.h. | 3.2 | 2.76 | 2.2 | 2.80 | 4.2 | 2.70 | 17.8 | 28.91 | 11.5 | 17.24 | 19.4 | 32.32 |
| | 54 m.p.h. | 7.1 | 10.63 | 8.8 | 9.09 | 5.1 | 12.61 | 38.8 | 55.47 | 19.2 | 27.59 | 43.7 | 63.64 |
| Bound | 59 m.p.h. | 15.0 | 25.59 | 19.1 | 25.17 | 10.2 | 26.13 | 69.8 | 77.34 | 38.5 | 48.28 | 77.7 | 85.86 |
| | 64 m.p.h. | 33.1 | 54.33 | 41.2 | 53.85 | 23.8 | 54.95 | 86.8 | 93.75 | 65.4 | 72.41 | 92.2 | 100.0 |
| | 69 m.p.h. | 63.9 | 81.50 | 69.1 | 81.12 | 55.9 | 81.98 | 96.9 | 98.44 | 88.5 | 93.10 | 99.0 | 100.0 |
| | 74 m.p.h. | 85.4 | 95.67 | 90.4 | 93.71 | 79.7 | 98.20 | 98.4 | 100.0 | 92.3 | 100.0 | 100 | 100.0 |
| | 79 m.p.h. | 94.1 | 98.82 | 96.3 | 97.90 | 91.5 | 100.0 | 99.2 | 100.0 | 96.2 | 100.0 | 100 | 100.0 |
| | 84 m.p.h. | 99.2 | 99.21 | 99.3 | 98.60 | 99.2 | 100.0 | 100 | 100.0 | 100 | 100.0 | 100 | 100.0 |
| | 89 m.p.h. | 99.6 | 99.21 | 99.3 | 98.60 | 100 | 100.0 | 100 | 100.0 | 100 | 100.0 | 100 | 100.0 |
| | No. of vehicles obs. | 127 | 126 | 66 | 72 | 61 | 54 | 68 | 64 | 16 | 18 | 52 | 46 |
| | Average speed | 67.8 | 64.28 | 66.2 | 64.40 | 69.4 | 64.11 | 55.0 | 52.41 | 61.1 | 59.50 | 53.1 | 49.63 |
| | No. of vehicles obs. | 127 | 128 | 70 | 71 | 57 | 57 | 61 | 64 | 10 | 11 | 51 | 53 |
| | Average speed | 66.2 | 62.75 | 65.5 | 63.11 | 66.9 | 62.30 | 57.2 | 55.28 | 61.4 | 57.09 | 56.4 | 54.91 |

TABLE 8 SPEED DATA

Station 8 Highway U.S. 52 Location 1.0 Mile West of Klondike

No. of Lanes 4 Type of Surface Asphaltic Concrete Weather Sunny

This Observation Last Previous Observation (Speed Report No. 87)

Date June 23, 1970 Date July 30, 1969

Time 8:30 - 11:20 a.m. Time 1:35 - 2:45 p.m.

| | | PASSENGER CARS | | | | | | TRUCKS | | | | | |
|------------------------|--|----------------|---------|---------|---------|-------------|---------|--------|---------|-----------------------|---------|---------------------|---------|
| | | All | | Indiana | | Non-Indiana | | All | | Less than 5000 pounds | | 5000 pounds or more | |
| OBSERVATION | | Last | Present | Last | Present | Last | Present | Last | Present | Last | Present | Last | Present |
| | | | | | | | | | | | | | |
| No. of vehicles obs. | | 284 | 302 | 167 | 178 | 117 | 124 | 109 | 146 | 27 | 31 | 82 | 115 |
| Average speed (m.p.h.) | | 65.49 | 63.45 | 64.9 | 63.02 | 66.3 | 64.07 | 60.00 | 55.71 | 62.4 | 57.13 | 59.2 | 55.33 |
| Standard deviation | | 7.92 | 6.980 | 8.34 | 7.555 | 7.22 | 6.038 | 7.15 | 5.982 | 9.60 | 7.224 | 6.02 | 5.575 |
| 24 m.p.h. | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 29 m.p.h. | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 34 m.p.h. | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 39 m.p.h. | | 0.0 | .33 | 0.0 | .56 | 0.0 | 0.0 | 0.9 | .68 | 3.7 | 0.0 | 0.0 | .87 |
| 44 m.p.h. | | 0.7 | 1.32 | 1.2 | 2.25 | 0.0 | 0.0 | 0.9 | 4.11 | 3.7 | 3.23 | 0.0 | 4.35 |
| 49 m.p.h. | | 3.2 | 2.32 | 3.6 | 3.93 | 2.6 | 0.0 | 6.4 | 12.33 | 14.8 | 16.13 | 3.7 | 11.30 |
| 54 m.p.h. | | 8.4 | 6.95 | 11.4 | 8.43 | 4.3 | 4.84 | 18.4 | 41.10 | 18.5 | 35.48 | 18.3 | 42.61 |
| 59 m.p.h. | | 18.3 | 24.83 | 21.0 | 28.65 | 14.5 | 19.35 | 50.5 | 71.23 | 33.3 | 58.06 | 56.1 | 74.78 |
| 64 m.p.h. | | 39.8 | 55.30 | 43.7 | 57.30 | 34.2 | 52.42 | 73.4 | 94.52 | 51.8 | 83.87 | 80.5 | 97.39 |
| 69 m.p.h. | | 73.2 | 83.77 | 73.6 | 84.83 | 72.6 | 82.26 | 86.2 | 99.32 | 70.4 | 96.77 | 91.5 | 100.0 |
| 74 m.p.h. | | 91.9 | 95.36 | 92.2 | 96.07 | 91.4 | 94.35 | 97.2 | 100.0 | 92.6 | 100.0 | 98.8 | 100.0 |
| 79 m.p.h. | | 95.4 | 98.68 | 95.8 | 98.31 | 94.9 | 99.19 | 100 | 100.0 | 100 | 100.0 | 100 | 100.0 |
| 84 m.p.h. | | 99.6 | 99.01 | 99.4 | 98.88 | 100 | 99.19 | 100 | 100.0 | 100 | 100.0 | 100 | 100.0 |
| 89 m.p.h. | | 99.6 | 99.67 | 99.4 | 99.44 | 100 | 100.0 | 100 | 100.0 | 100 | 100.0 | 100 | 100.0 |
| No. of vehicles obs. | | 140 | 158 | 81 | 83 | 59 | 75 | 56 | 64 | 14 | 17 | 42 | 47 |
| Average speed | | 66.2 | 63.54 | 65.6 | 61.88 | 67.1 | 65.37 | 61.0 | 55.94 | 61.4 | 55.94 | 60.8 | 55.94 |
| No. of vehicles obs. | | 144 | 144 | 86 | 95 | 58 | 49 | 53 | 82 | 13 | 14 | 40 | 68 |
| Average speed | | 64.9 | 63.36 | 64.3 | 64.02 | 65.5 | 62.08 | 59.0 | 55.54 | 63.4 | 58.57 | 57.6 | 54.91 |

All vehicles
at or less than

TABLE 9 SPEED DATA

Station 9 Highway U.S. 35 Location 1.50 Miles East of Junction I-69

No. of Lanes 9 Type of Surface Asphaltic Concrete Weather Sunny

This Observation Last Previous Observation (Speed Report No. ---)

Date August 8, 1970 Date New Station

Time 1:35 - 3:30 p.m. Time ---

| | | PASSENGER CARS | | | | | | TRUCKS | | | | | |
|------------------------|--|----------------|---------|---------|---------|-------------|---------|--------|---------|-----------------------|---------|---------------------|---------|
| | | All | | Indiana | | Non-Indiana | | All | | Less than 5000 pounds | | 5000 pounds or more | |
| OBSERVATION | | Last | Present | Last | Present | Last | Present | Last | Present | Last | Present | Last | Present |
| No. of vehicles obs. | | 250 | 253 | 122 | 222 | 128 | 31 | 146 | 121 | 49 | 42 | 97 | 79 |
| Average speed (m.p.h.) | | 63.46 | 62.06 | 62.60 | 62.16 | 64.28 | 61.32 | 57.53 | 56.91 | 59.53 | 59.90 | 56.53 | 55.32 |
| Standard deviation | | 7.569 | 6.385 | 8.090 | 6.561 | 6.970 | 4.969 | 7.911 | 7.029 | 7.768 | 6.970 | 7.829 | 6.562 |
| 24 m.p.h. | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 29 m.p.h. | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 34 m.p.h. | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 39 m.p.h. | | 1.40 | 0.0 | 1.82 | 0.0 | 0.0 | 0.0 | 2.05 | 2.48 | 0.0 | 0.0 | 3.09 | 3.80 |
| 44 m.p.h. | | 1.60 | .40 | 3.28 | .45 | 0.0 | 0.0 | 5.48 | 4.13 | 0.0 | 2.38 | 8.25 | 5.06 |
| 49 m.p.h. | | 4.80 | 3.16 | 7.38 | 3.65 | 2.34 | 0.0 | 14.38 | 10.74 | 10.20 | 7.14 | 16.49 | 12.66 |
| 54 m.p.h. | | 12.80 | 11.86 | 17.21 | 12.16 | 8.59 | 9.68 | 32.88 | 33.06 | 22.45 | 19.05 | 38.14 | 40.51 |
| 59 m.p.h. | | 26.0 | 29.25 | 29.51 | 28.38 | 22.66 | 35.48 | 58.90 | 61.98 | 57.14 | 42.86 | 59.79 | 72.15 |
| 64 m.p.h. | | 53.60 | 64.03 | 54.10 | 62.61 | 53.13 | 74.19 | 83.56 | 85.95 | 75.51 | 73.81 | 87.63 | 92.41 |
| 69 m.p.h. | | 80.0 | 89.33 | 82.79 | 88.74 | 77.34 | 93.55 | 93.84 | 96.69 | 89.80 | 92.86 | 95.88 | 98.73 |
| 74 m.p.h. | | 94.4 | 98.02 | 95.9 | 97.75 | 92.97 | 100.0 | 97.95 | 100.0 | 93.88 | 100.0 | 100.0 | 100.0 |
| 79 m.p.h. | | 99.2 | 99.21 | 100.0 | 99.10 | 98.44 | 100.0 | 99.32 | 100.0 | 97.96 | 100.0 | 100.0 | 100.0 |
| 84 m.p.h. | | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 89 m.p.h. | | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| No. of vehicles obs. | | 128 | 126 | 61 | 106 | 67 | 20 | 82 | 60 | 33 | 23 | 49 | 37 |
| Average speed | | 62.30 | 61.99 | 61.51 | 62.31 | 63.03 | 60.30 | 56.28 | 55.18 | 58.82 | 59.35 | 54.57 | 52.59 |
| No. of vehicles obs. | | 122 | 127 | 61 | 116 | 61 | 11 | 64 | 61 | 16 | 19 | 48 | 42 |
| Average speed | | 64.67 | 62.13 | 63.69 | 62.03 | 65.66 | 63.18 | 59.14 | 58.61 | 61.00 | 60.58 | 58.52 | 57.71 |

TABLE 10 SPEED DATA

Station 10 Highway U.S. 43 Location 2.0 Miles South of Chalmers
 No. of Lanes 2 Type of Surface Asphaltic Concrete Weather Cloudy
 This Observation Date June 26, 1970 Last Previous Observation (Speed Report No. 87)
 Date July 22, 1969
 Time 9:05 - 12:05 p.m. Time 10:20 - 2:30 p.m.

| | | PASSENGER CARS | | | | | | TRUCKS | | | | | |
|------------------------|--|----------------|---------|---------|---------|-------------|---------|--------|---------|-----------------------|---------|---------------------|---------|
| | | All | | Indiana | | Non-Indiana | | All | | Less than 5000 pounds | | 5000 pounds or more | |
| OBSERVATION | | Last | Present | Last | Present | Last | Present | Last | Present | Last | Present | Last | Present |
| No. of vehicles obs. | | 261 | 259 | 242 | 235 | 19 | 24 | 119 | 119 | 60 | 45 | 59 | 74 |
| Average speed (m.p.h.) | | 66.95 | 63.82 | 66.9 | 63.67 | 67.8 | 65.25 | 59.67 | 56.39 | 64.0 | 58.16 | 55.3 | 55.32 |
| Standard deviation | | 9.11 | 7.542 | 9.22 | 7.254 | 7.70 | 10.018 | 7.69 | 6.998 | 7.88 | 7.883 | 4.31 | 6.216 |
| 24 m.p.h. | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 29 m.p.h. | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 34 m.p.h. | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 39 m.p.h. | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 44 m.p.h. | | 0.4 | 0.0 | 0.4 | 0.0 | 0.0 | 0.0 | 0.0 | 4.20 | 0.0 | 2.22 | 0.0 | 5.41 |
| 49 m.p.h. | | 0.8 | 3.47 | 0.8 | 2.98 | 0.0 | 8.33 | 3.4 | 15.13 | 3.3 | 6.67 | 3.4 | 20.27 |
| 54 m.p.h. | | 10.0 | 9.65 | 10.7 | 9.36 | 0.0 | 12.50 | 31.9 | 39.50 | 11.7 | 33.33 | 52.4 | 43.24 |
| 59 m.p.h. | | 19.9 | 26.64 | 19.8 | 26.38 | 21.0 | 29.17 | 56.3 | 69.75 | 31.7 | 64.44 | 81.4 | 72.97 |
| 64 m.p.h. | | 38.3 | 52.51 | 39.3 | 53.62 | 26.3 | 41.67 | 74.0 | 89.92 | 51.7 | 82.22 | 96.6 | 94.59 |
| 69 m.p.h. | | 61.3 | 77.22 | 62.0 | 77.87 | 52.6 | 70.83 | 85.7 | 97.48 | 73.3 | 93.33 | 98.3 | 100.0 |
| 74 m.p.h. | | 82.4 | 93.05 | 82.2 | 94.04 | 84.2 | 83.33 | 96.6 | 99.16 | 93.3 | 97.78 | 100 | 100.0 |
| 79 m.p.h. | | 93.1 | 97.68 | 93.0 | 98.30 | 94.7 | 91.67 | 98.3 | 99.16 | 96.7 | 97.78 | 100 | 100.0 |
| 84 m.p.h. | | 97.3 | 98.84 | 97.1 | 99.15 | 100 | 95.83 | 100 | 99.16 | 100 | 97.78 | 100 | 100.0 |
| 89 m.p.h. | | 98.5 | 100.0 | 98.4 | 100.0 | 100 | 100.0 | 100 | 100.0 | 100 | 100.0 | 100 | 100.0 |
| No. of vehicles obs. | | 124 | 118 | 112 | 107 | 12 | 11 | 61 | 59 | 31 | 25 | 30 | 34 |
| Average speed | | 66.0 | 63.28 | 66.0 | 63.33 | 65.8 | 62.82 | 59.8 | 57.02 | 64.2 | 58.68 | 55.3 | 55.79 |
| No. of vehicles obs. | | 137 | 141 | 130 | 128 | 7 | 13 | 58 | 60 | 29 | 20 | 29 | 40 |
| Average speed | | 67.8 | 64.27 | 67.6 | 63.96 | 71.4 | 67.31 | 59.6 | 55.78 | 63.8 | 57.50 | 55.3 | 54.92 |

TABLE 12 SPEED DATA

Station 12 Highway S.R. 25 Location 0.7 Miles West of Americus Weather Partly Cloudy
 No. of Lanes 2 Type of Surface Asphaltic Concrete Last Previous Observation (Speed Report No. 87)
 Date June 25, 1970 Date August 18, 1969
 Time 8:55 - 11:15 a.m. Time 9:00 - 12:30 p.m.

| | | PASSENGER CARS | | | | | | TRUCKS | | | | | |
|---------------------------------|------------------------|----------------|---------|---------|---------|-------------|---------|--------|---------|-----------------------|---------|---------------------|---------|
| | | All | | Indiana | | Non-Indiana | | All | | Less than 5000 pounds | | 5000 pounds or more | |
| OBSERVATION | | Last | Present | Last | Present | Last | Present | Last | Present | Last | Present | Last | Present |
| All vehicles at or less than | No. of vehicles obs. | 235 | 236 | 217 | 207 | 18 | 29 | 104 | 108 | 45 | 31 | 59 | 77 |
| | Average speed (m.p.h.) | 63.82 | 60.38 | 63.9 | 60.26 | 63.4 | 61.17 | 56.50 | 54.74 | 59.5 | 58.32 | 54.2 | 53.30 |
| | Standard deviation | 7.62 | 7.384 | 7.54 | 7.603 | 8.76 | 5.689 | 6.19 | 6.301 | 9.41 | 6.838 | 6.31 | 5.487 |
| | 24 m.p.h. | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | 29 m.p.h. | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | 34 m.p.h. | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | 39 m.p.h. | 0.0 | .42 | 0.0 | .48 | 0.0 | 0.0 | 1.3 | 0.0 | 2.2 | 0.0 | 1.7 | 0.0 |
| | 44 m.p.h. | 0.3 | 2.07 | 0.0 | 3.38 | 0.0 | 0.0 | 4.3 | 6.48 | 4.4 | 6.45 | 5.1 | 6.49 |
| | 49 m.p.h. | 2.6 | 6.36 | 1.2 | 7.25 | 11.1 | 0.0 | 13.5 | 20.37 | 6.7 | 9.68 | 12.6 | 24.58 |
| | 54 m.p.h. | 11.2 | 17.30 | 11.5 | 18.36 | 16.7 | 13.79 | 41.4 | 47.22 | 26.7 | 25.81 | 52.5 | 55.51 |
| Bound | No. of vehicles obs. | 24.3 | 30.41 | 24.4 | 33.61 | 22.2 | 37.93 | 68.3 | 72.22 | 57.8 | 48.39 | 76.3 | 81.82 |
| | Average speed | 55.7 | 70.76 | 56.2 | 71.01 | 50.0 | 68.97 | 84.5 | 94.44 | 75.6 | 80.65 | 94.9 | 100.0 |
| | Standard deviation | 76.7 | 90.25 | 72.5 | 80.86 | 77.8 | 93.10 | 90.4 | 100.0 | 82.7 | 100.0 | 96.6 | 100.0 |
| | 24 m.p.h. | 90.6 | 97.03 | 91.2 | 97.10 | 83.3 | 96.55 | 96.2 | 100.0 | 91.1 | 100.0 | 100 | 100.0 |
| | 29 m.p.h. | 98.3 | 99.15 | 98.2 | 99.03 | 100 | 100.0 | 99.0 | 100.0 | 97.8 | 100.0 | 100 | 100.0 |
| | 34 m.p.h. | 99.6 | 100.0 | 99.5 | 100.0 | 100 | 100.0 | 100 | 100.0 | 100 | 100.0 | 100 | 100.0 |
| | 39 m.p.h. | 100 | 100.0 | 100 | 100.0 | 100 | 100.0 | 100 | 100.0 | 100 | 100.0 | 100 | 100.0 |
| | No. of vehicles obs. | 130 | 117 | 116 | 96 | 14 | 21 | 63 | 55 | 27 | 15 | 36 | 40 |
| | Average speed | 63.5 | 60.36 | 63.6 | 60.29 | 62.9 | 60.67 | 57.2 | 53.44 | 61.1 | 57.73 | 54.2 | 51.82 |
| | No. of vehicles obs. | 105 | 119 | 101 | 111 | 4 | 8 | 41 | 53 | 18 | 16 | 23 | 37 |
| | Average speed | 64.2 | 61.60 | 64.1 | 61.53 | 65.5 | 62.50 | 55.5 | 56.09 | 57.1 | 58.89 | 54.2 | 54.89 |

TABLE 13 SPEED DATA

Station 1,2,3,4 Highway Interstate Location See Individual Stations

No. of Lanes This Observation Type of Surface Weather

Date Date Last Previous Observation (Speed Report No. 87)

Time Time

| OBSERVATION | | PASSENGER CARS | | | | | | TRUCKS | | | | | |
|--|------------------------|----------------|---------|---------|---------|-------------|---------|--------|---------|-----------------------|---------|---------------------|---------|
| | | All | | Indiana | | Non-Indiana | | All | | Less than 5000 pounds | | 5000 pounds or more | |
| | | Last | Present | Last | Present | Last | Present | Last | Present | Last | Present | Last | Present |
| ALL vehicles at or less than # of vehicles traveling | No. of vehicles obs. | 1110 | 1138 | 615 | 694 | 495 | 444 | 351 | 388 | 96 | 82 | 255 | 306 |
| | Average speed (m.p.h.) | 70.62 | 69.16 | 70.2 | 69.13 | 71.2 | 69.21 | 61.36 | 60.48 | 65.3 | 63.84 | 59.9 | 59.58 |
| | Standard deviation | 7.07 | 6.707 | 7.30 | 7.055 | 6.75 | 6.132 | 7.79 | 6.508 | 8.11 | 8.146 | 7.13 | 5.680 |
| | 24 m.p.h. | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | 29 m.p.h. | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | 34 m.p.h. | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | 39 m.p.h. | 0.0 | .09 | 0.0 | .14 | 0.0 | 0.0 | 0.0 | .52 | 0.0 | 1.22 | 0.0 | .33 |
| | 44 m.p.h. | 0.1 | .09 | 0.2 | .14 | 0.0 | 0.0 | 1.4 | 1.03 | 1.0 | 1.22 | 1.6 | .98 |
| | 49 m.p.h. | 0.4 | .44 | 0.6 | .29 | 0.2 | .68 | 6.6 | 4.12 | 3.1 | 4.88 | 7.8 | 3.92 |
| | 54 m.p.h. | 1.5 | 2.02 | 1.6 | 1.87 | 1.4 | 2.25 | 18.8 | 17.53 | 7.3 | 12.20 | 23.1 | 18.95 |
| | 59 m.p.h. | 6.6 | 7.64 | 7.2 | 8.79 | 5.9 | 5.86 | 37.9 | 42.01 | 21.9 | 28.05 | 43.9 | 45.75 |
| | 64 m.p.h. | 17.0 | 21.09 | 18.2 | 22.91 | 15.6 | 18.24 | 65.0 | 73.20 | 45.8 | 46.34 | 72.2 | 80.39 |
| | 69 m.p.h. | 42.1 | 51.05 | 45.4 | 51.15 | 37.8 | 50.90 | 86.0 | 92.78 | 67.7 | 73.17 | 92.9 | 98.04 |
| | 74 m.p.h. | 70.6 | 82.86 | 73.3 | 81.56 | 67.3 | 84.91 | 94.9 | 98.45 | 85.4 | 93.90 | 98.4 | 99.67 |
| | 79 m.p.h. | 91.5 | 94.29 | 92.4 | 93.95 | 90.5 | 94.82 | 98.9 | 99.48 | 95.8 | 97.56 | 100 | 100.0 |
| | 84 m.p.h. | 97.4 | 98.59 | 97.1 | 97.98 | 97.8 | 99.55 | 99.7 | 100.0 | 99.0 | 100.0 | 100 | 100.0 |
| | 89 m.p.h. | 99.1 | 99.38 | 98.7 | 98.99 | 99.6 | 100.0 | 100 | 100.0 | 100 | 100.0 | 100 | 100.0 |

TABLE 14 SPEED DATA

Station 5,6,7,8 Highway 1 Lanes 1 Location See Individual StationsNo. of Lanes 1 Type of Surface WeatherThis Observation Last Previous Observation (Speed Report No. 87)Date Time
Date Time

| OBSERVATION | | PASSENGER CARS | | | | | | TRUCKS | | | | | |
|---------------------------------|------------------------|----------------|---------|---------|---------|-------------|---------|--------|---------|-----------------------|---------|---------------------|---------|
| | | All | | Indiana | | Non-Indiana | | All | | Less than 5000 pounds | | 5000 pounds or more | |
| | | Last | Present | Last | Present | Last | Present | Last | Present | Last | Present | Last | Present |
| All vehicles at or less than | No. of vehicles obs. | 1078 | 1107 | 670 | 719 | 408 | 388 | 484 | 523 | 130 | 135 | 354 | 388 |
| | Average speed (m.p.h.) | 67.93 | 64.49 | 67.7 | 64.59 | 68.2 | 64.31 | 59.62 | 56.24 | 64.0 | 59.70 | 58.0 | 55.04 |
| | Standard deviation | 7.65 | 7.070 | 7.95 | 7.429 | 7.14 | 6.356 | 7.72 | 6.926 | 8.62 | 8.043 | 6.70 | 6.058 |
| | 24 m.p.h. | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | 29 m.p.h. | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | 34 m.p.h. | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | .19 | 0.0 | .74 | 0.0 | 0.0 |
| | 39 m.p.h. | 0.0 | .27 | 0.0 | .42 | 0.0 | 0.0 | 1.0 | 1.15 | 0.8 | .74 | 1.1 | 1.29 |
| | 44 m.p.h. | 0.6 | .72 | 0.4 | .97 | 0.7 | .26 | 2.5 | 5.16 | 1.5 | 5.93 | 2.8 | 4.90 |
| | 49 m.p.h. | 1.8 | 2.17 | 1.5 | 2.64 | 2.2 | 1.29 | 8.3 | 15.49 | 7.7 | 11.11 | 8.5 | 17.01 |
| | 54 m.p.h. | 4.7 | 6.78 | 5.5 | 6.82 | 3.4 | 6.70 | 22.9 | 39.39 | 14.6 | 20.74 | 26.0 | 45.88 |
| All vehicles | 59 m.p.h. | 12.4 | 20.33 | 14.6 | 21.00 | 8.8 | 19.07 | 51.0 | 65.97 | 27.7 | 42.96 | 59.6 | 73.97 |
| | 64 m.p.h. | 27.6 | 48.33 | 30.3 | 48.40 | 23.0 | 48.20 | 72.5 | 90.06 | 46.9 | 73.33 | 81.9 | 95.88 |
| | 69 m.p.h. | 58.2 | 78.32 | 59.0 | 77.47 | 56.9 | 79.90 | 90.3 | 97.90 | 73.8 | 91.85 | 96.3 | 100.0 |
| | 74 m.p.h. | 83.8 | 93.59 | 83.3 | 92.35 | 84.6 | 95.88 | 96.9 | 99.62 | 90.0 | 98.52 | 99.4 | 100.0 |
| | 79 m.p.h. | 93.8 | 98.10 | 94.0 | 97.50 | 93.4 | 99.23 | 99.4 | 99.81 | 97.7 | 99.26 | 100 | 100.0 |
| | 84 m.p.h. | 99.0 | 99.28 | 98.5 | 99.17 | 99.8 | 99.48 | 99.8 | 100.0 | 99.2 | 100.0 | 100 | 100.0 |
| | 89 m.p.h. | 99.8 | 99.73 | 99.7 | 99.58 | 100 | 100.0 | 100 | 100.0 | 100 | 100.0 | 100 | 100.0 |

TABLE 15 SPEED DATA

Station 9,10,11,12 Highway 2 Lanes Location See Individual Stations

No. of Lanes 3 Type of Surface Asphalt Last Previous Observation (Speed Report No. 87)

Date 10/10/54 Date 10/10/54

Time 10:00 Time 10:00

Weather Clear

| OBSERVATION | | PASSENGER CARS | | | | | | TRUCKS | | | | | |
|------------------------|--|----------------|---------|---------|---------|-------------|---------|--------|---------|-----------------------|---------|---------------------|---------|
| | | All | | Indiana | | Non-Indiana | | All | | Less than 5000 pounds | | 5000 pounds or more | |
| | | Last | Present | Last | Present | Last | Present | Last | Present | Last | Present | Last | Present |
| No. of vehicles obs. | | 986 | 999 | 757 | 859 | 229 | 140 | 467 | 432 | 197 | 148 | 270 | 284 |
| Average speed (m.p.h.) | | 64.65 | 62.34 | 64.7 | 62.27 | 64.6 | 62.75 | 57.87 | 56.25 | 60.5 | 58.96 | 55.9 | 54.84 |
| Standard deviation | | 8.04 | 7.218 | 8.31 | 7.251 | 7.06 | 7.018 | 7.84 | 6.700 | 8.55 | 7.137 | 6.67 | 6.007 |
| 24 m.p.h. | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 29 m.p.h. | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 34 m.p.h. | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.0 | 0.5 | 0.0 | 0.0 | 0.0 |
| 39 m.p.h. | | 0.2 | .10 | 0.3 | .12 | 0.0 | 0.0 | 1.5 | .69 | 1.0 | 0.0 | 1.8 | 1.06 |
| 44 m.p.h. | | 0.9 | 1.30 | 1.2 | 1.40 | 0.0 | .71 | 3.8 | 4.40 | 2.5 | 2.70 | 4.8 | 5.28 |
| 49 m.p.h. | | 2.5 | 4.20 | 2.6 | 4.54 | 2.2 | 2.14 | 10.7 | 13.66 | 6.6 | 6.76 | 13.7 | 17.25 |
| 54 m.p.h. | | 10.8 | 12.71 | 11.6 | 13.04 | 7.9 | 10.71 | 33.6 | 39.12 | 22.3 | 27.03 | 41.8 | 45.42 |
| 59 m.p.h. | | 23.3 | 31.53 | 23.4 | 31.78 | 23.1 | 30.00 | 59.7 | 68.06 | 50.2 | 54.05 | 66.7 | 75.35 |
| 64 m.p.h. | | 49.7 | 62.66 | 49.8 | 62.63 | 49.3 | 62.86 | 82.0 | 89.81 | 69.0 | 77.70 | 91.5 | 96.13 |
| 69 m.p.h. | | 74.2 | 85.19 | 74.0 | 85.33 | 75.1 | 84.29 | 91.6 | 97.69 | 84.3 | 93.92 | 97.0 | 99.65 |
| 74 m.p.h. | | 90.1 | 95.90 | 89.4 | 96.16 | 92.1 | 94.29 | 97.4 | 99.77 | 93.9 | 99.32 | 100 | 100.0 |
| 79 m.p.h. | | 97.2 | 98.70 | 96.8 | 98.72 | 98.2 | 98.57 | 99.1 | 99.77 | 98.0 | 99.32 | 100 | 100.0 |
| 84 m.p.h. | | 99.2 | 99.60 | 98.9 | 99.65 | 100 | 99.29 | 100 | 99.77 | 100 | 99.32 | 100 | 100.0 |
| 89 m.p.h. | | 99.6 | 99.90 | 99.5 | 99.88 | 100 | 100.0 | 100 | 100.0 | 100 | 100.0 | 100 | 100.0 |

All vehicles
at or less than

TABLE 16 SPEED DATA

Station 1 thru 12 Highway All Systems Location See Individual Stations

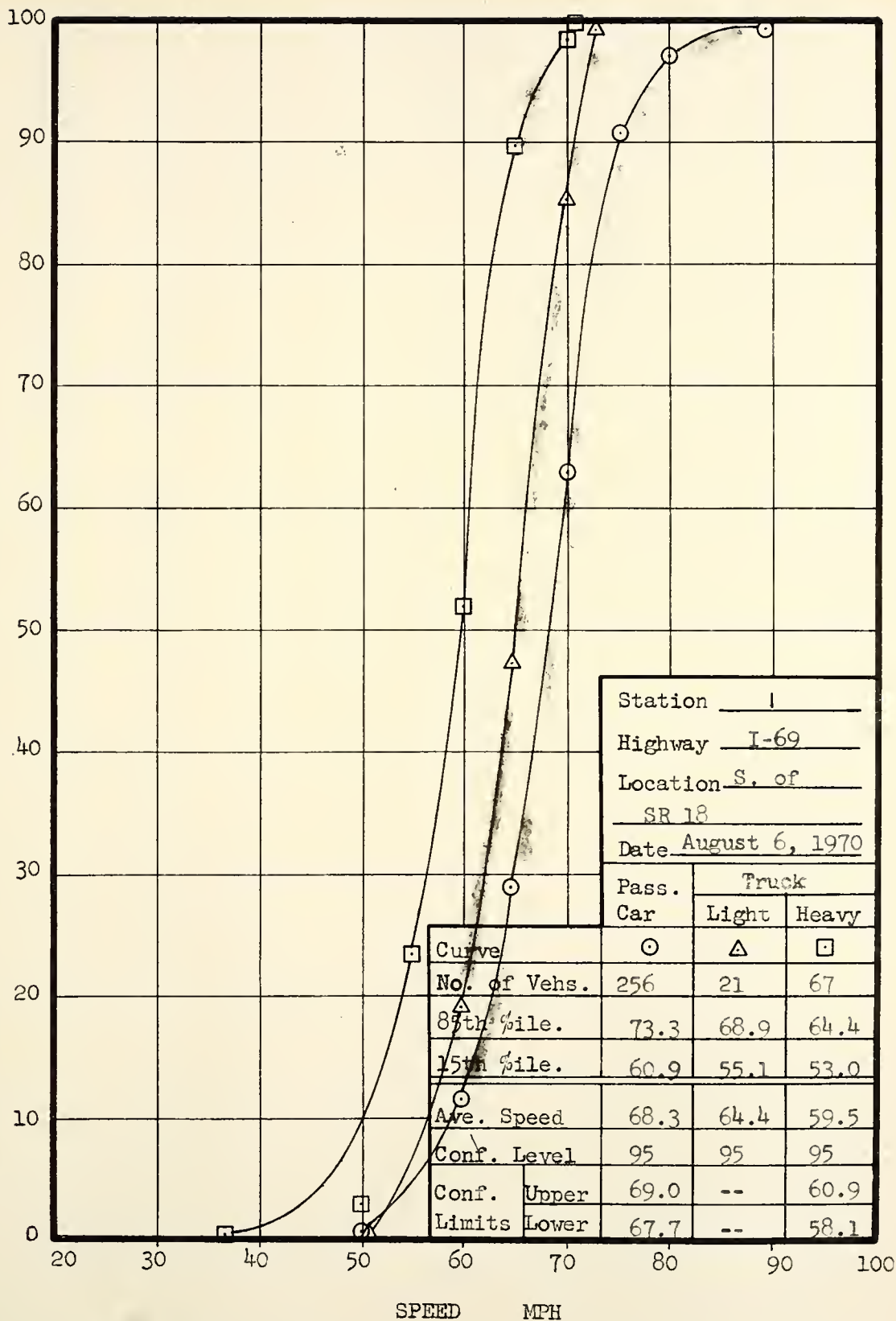
No. of Lanes This Observation Type of Surface Last Previous Observation (Speed Report No. 87) Weather 87

Date Date

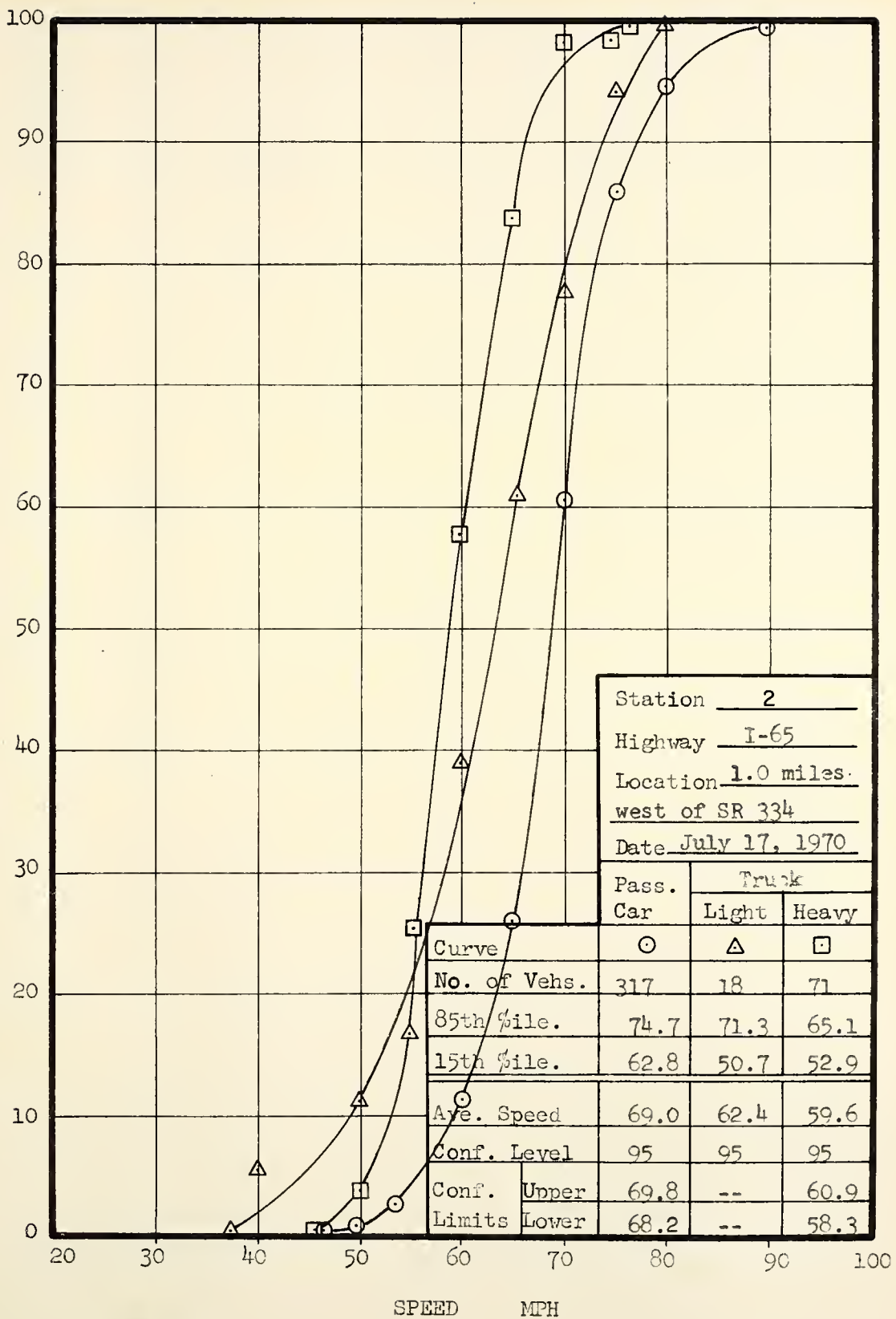
Time Time

| | | PASSENGER CARS | | | | | | TRUCKS | | | | | |
|--|------------------------|----------------|---------|---------|---------|-------------|---------|--------|---------|-----------------------|---------|---------------------|---------|
| | | All | | Indiana | | Non-Indiana | | All | | Less than 5000 pounds | | 5000 pounds or more | |
| OBSERVATION | | Last | Present | Last | Present | Last | Present | Last | Present | Last | Present | Last | Present |
| ALL vehicles at or less than 8 of vehicles traveling | No. of vehicles obs. | 3174 | 3244 | 2042 | 2272 | 1132 | 972 | 1302 | 1343 | 423 | 365 | 879 | 978 |
| | Average speed (m.p.h.) | 67.85 | 65.47 | 67.33 | 65.10 | 68.79 | 66.32 | 59.46 | 57.47 | 62.66 | 60.33 | 57.92 | 56.40 |
| | Standard deviation | 7.95 | 7.548 | 8.21 | 7.782 | 7.38 | 6.898 | 7.90 | 6.998 | 8.70 | 7.927 | 6.98 | 6.298 |
| | 24 m.p.h. | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | 29 m.p.h. | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | 34 m.p.h. | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | .07 | 0.2 | .27 | 0.0 | 0.0 |
| | 39 m.p.h. | 0.5 | .15 | 0.1 | .22 | 0.0 | 0.0 | 0.9 | .82 | 0.7 | .55 | 1.0 | .92 |
| | 44 m.p.h. | 1.5 | .68 | 0.6 | .88 | 0.3 | .21 | 2.7 | .372 | 1.9 | 3.56 | 3.1 | 3.78 |
| | 49 m.p.h. | 5.5 | 2.19 | 1.7 | 2.64 | 1.3 | 1.13 | 8.7 | 11.62 | 6.2 | 7.95 | 9.9 | 12.99 |
| | 54 m.p.h. | 5.5 | 6.94 | 6.6 | 7.66 | 3.4 | 5.25 | 25.6 | 32.99 | 6.6 | 21.37 | 30.0 | 37.32 |
| | 59 m.p.h. | 13.8 | 19.33 | 15.6 | 21.35 | 10.4 | 14.61 | 50.6 | 59.72 | 36.9 | 44.11 | 57.2 | 65.54 |
| | 64 m.p.h. | 30.8 | 43.19 | 33.9 | 45.99 | 25.1 | 36.63 | 73.9 | 85.11 | 57.0 | 69.04 | 82.0 | 91.10 |
| | 69 m.p.h. | 57.5 | 70.87 | 60.5 | 72.40 | 52.2 | 67.28 | 89.6 | 96.35 | 77.3 | 88.49 | 95.6 | 99.28 |
| | 74 m.p.h. | 81.1 | 90.54 | 82.6 | 90.49 | 78.5 | 90.64 | 96.5 | 99.33 | 90.8 | 97.81 | 99.3 | 99.90 |
| | 79 m.p.h. | 94.0 | 96.95 | 94.6 | 96.88 | 93.1 | 97.12 | 99.2 | 99.70 | 97.4 | 98.90 | 100 | 100.0 |
| | 84 m.p.h. | 98.5 | 99.14 | 98.2 | 98.99 | 98.9 | 99.49 | 99.8 | 99.93 | 99.5 | 99.73 | 100 | 100.0 |
| | 89 m.p.h. | 99.5 | 99.66 | 99.3 | 99.52 | 99.8 | 100.0 | 100 | 100.0 | 100 | 100.0 | 100 | 100.0 |

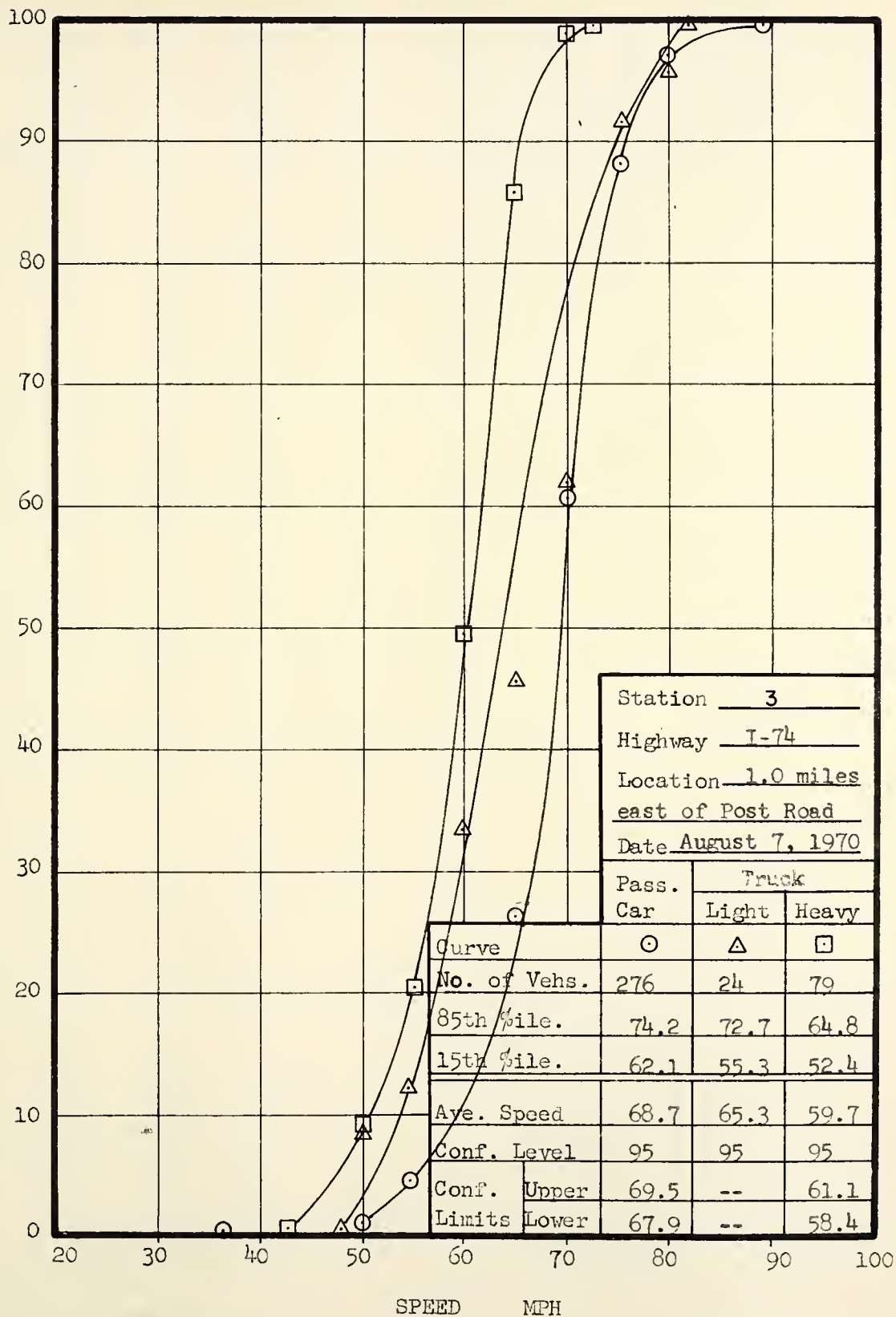
PERCENTILE



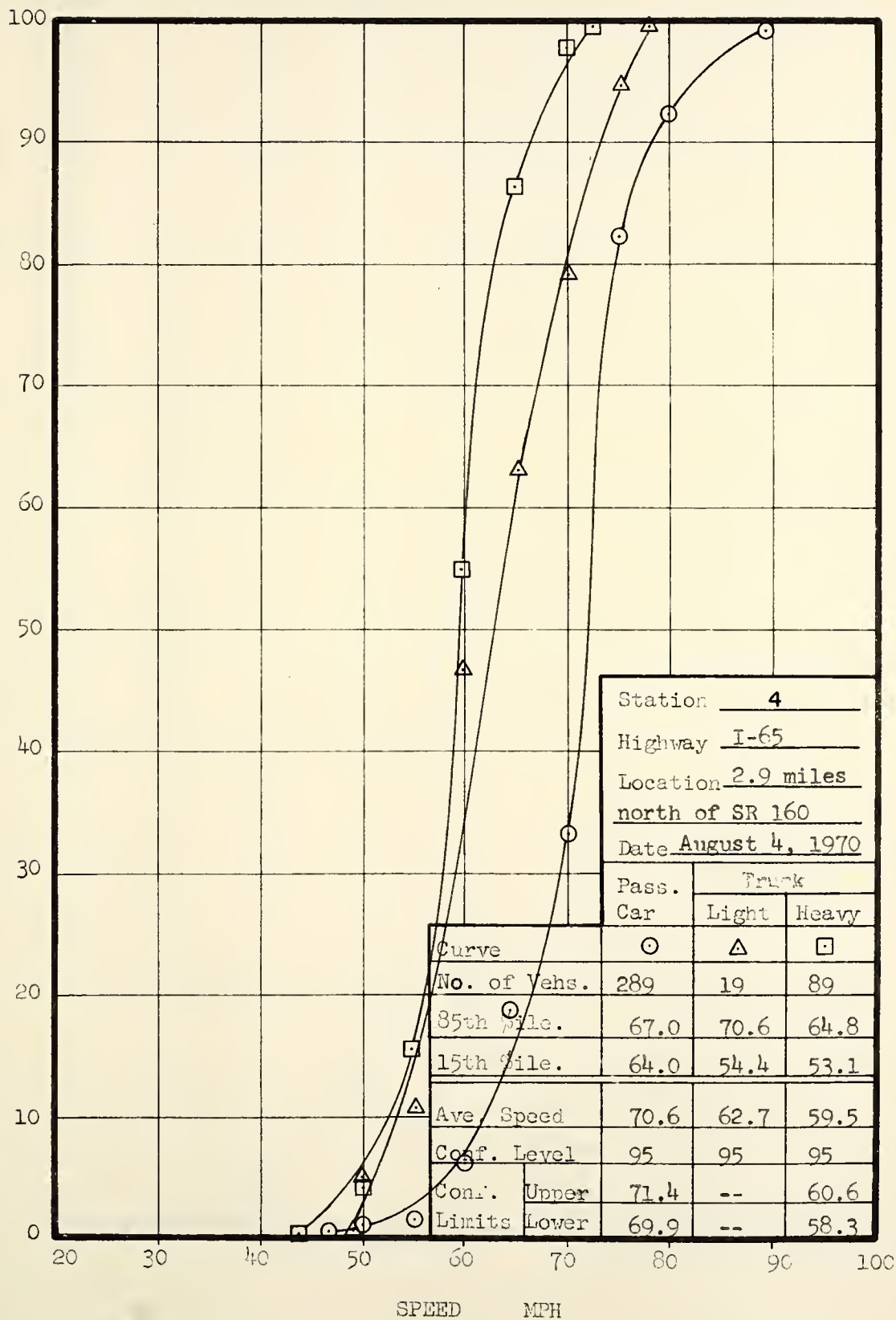
PERCENTILE



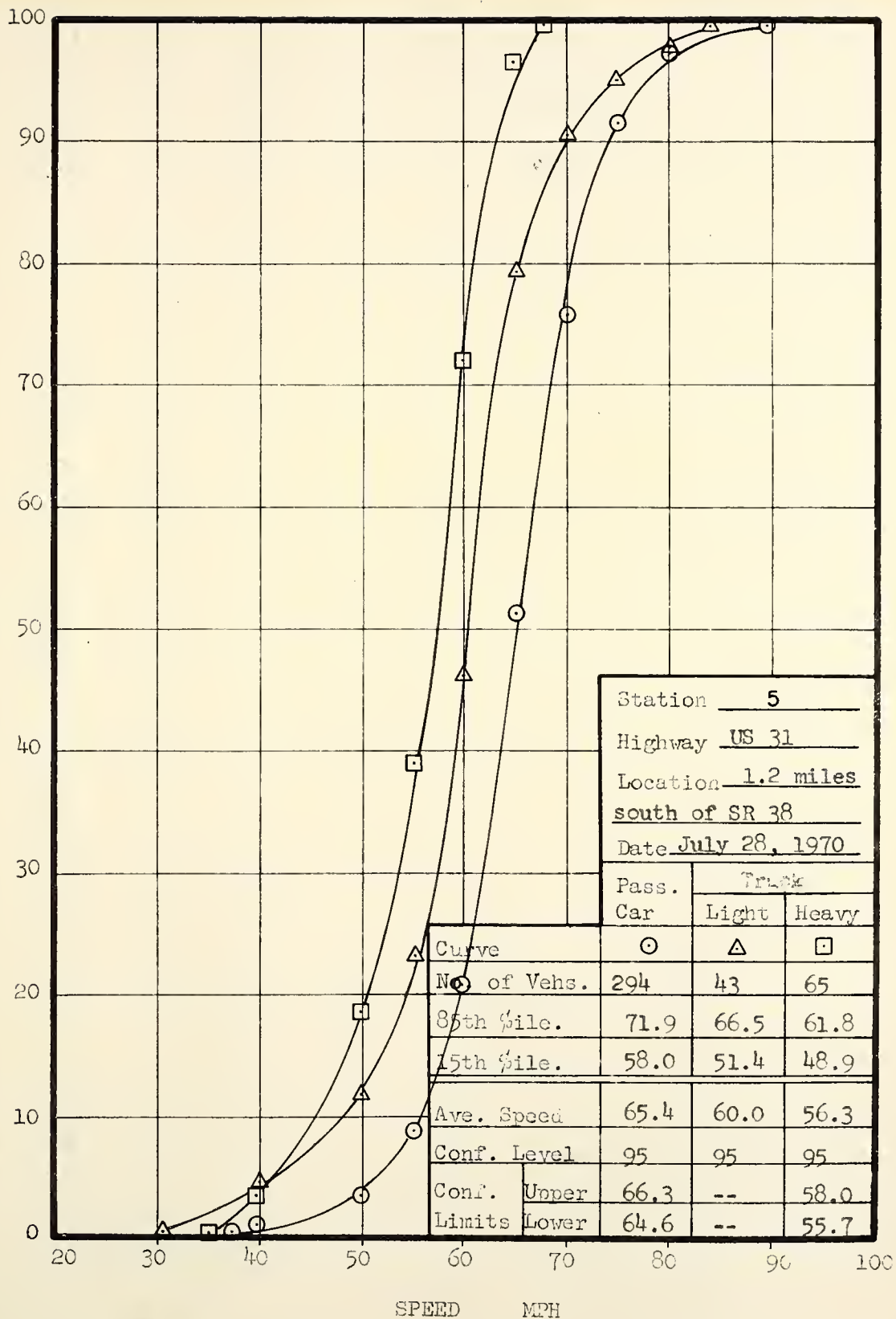
PERCENTILE



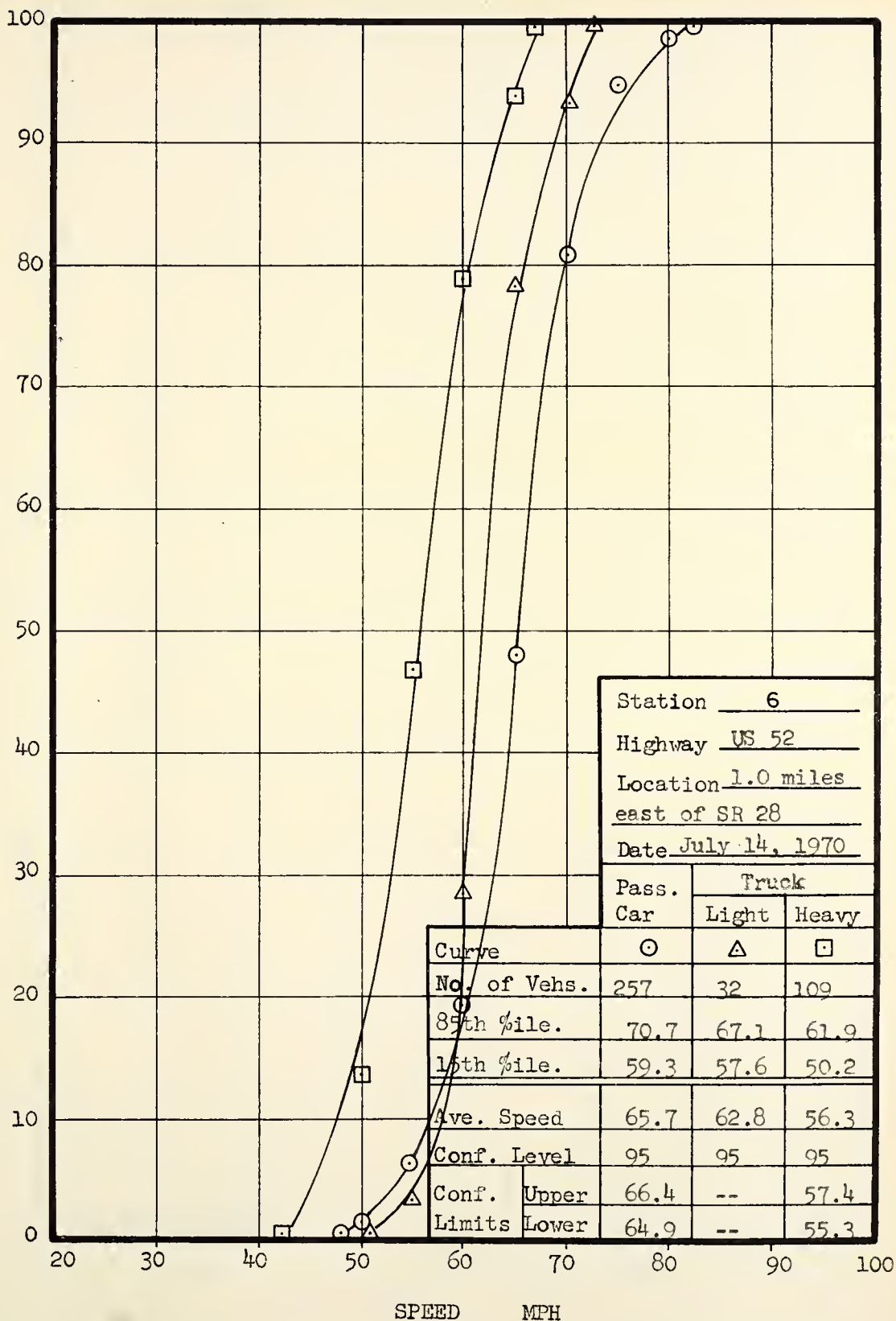
PERCENTILE



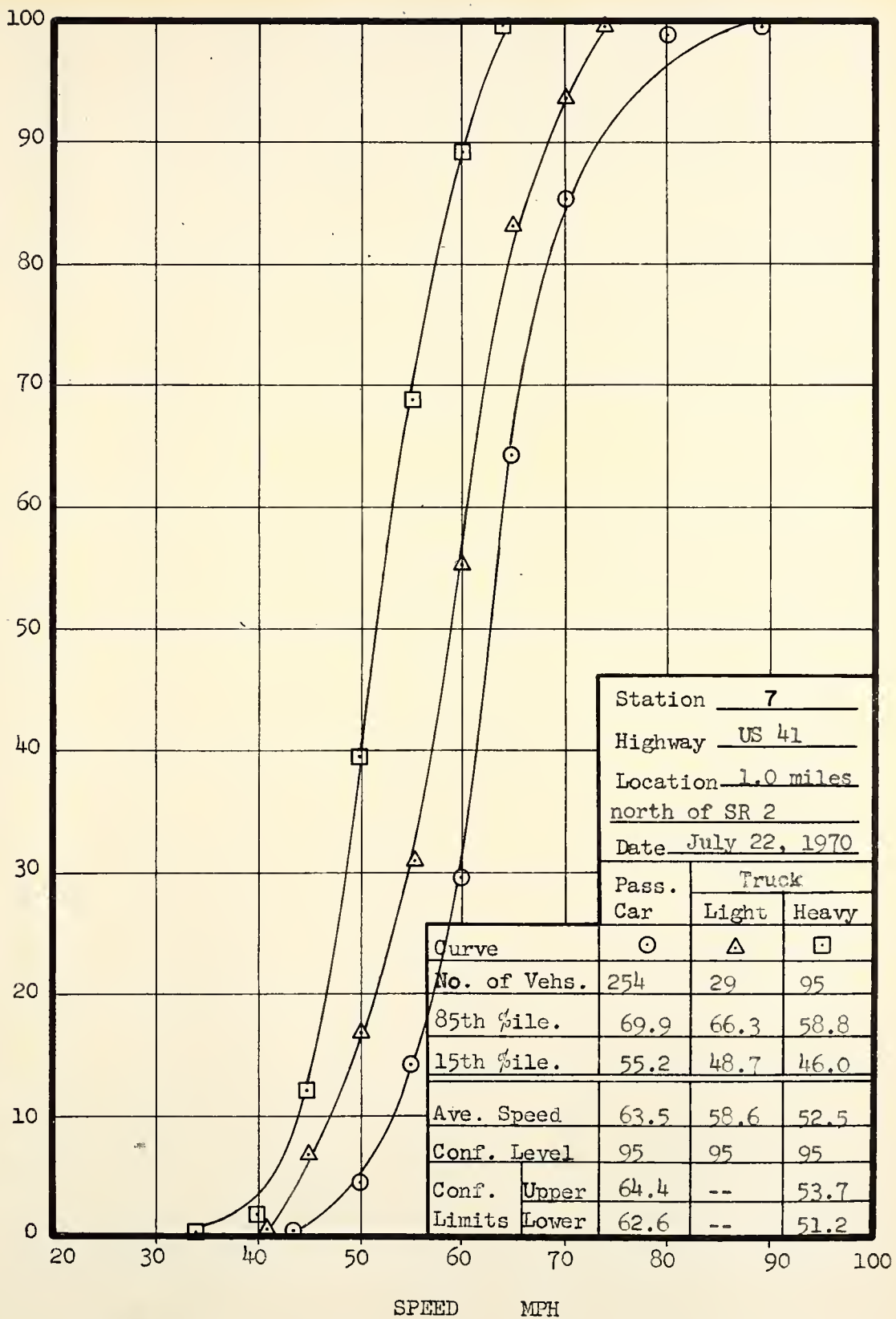
PERCENTILE



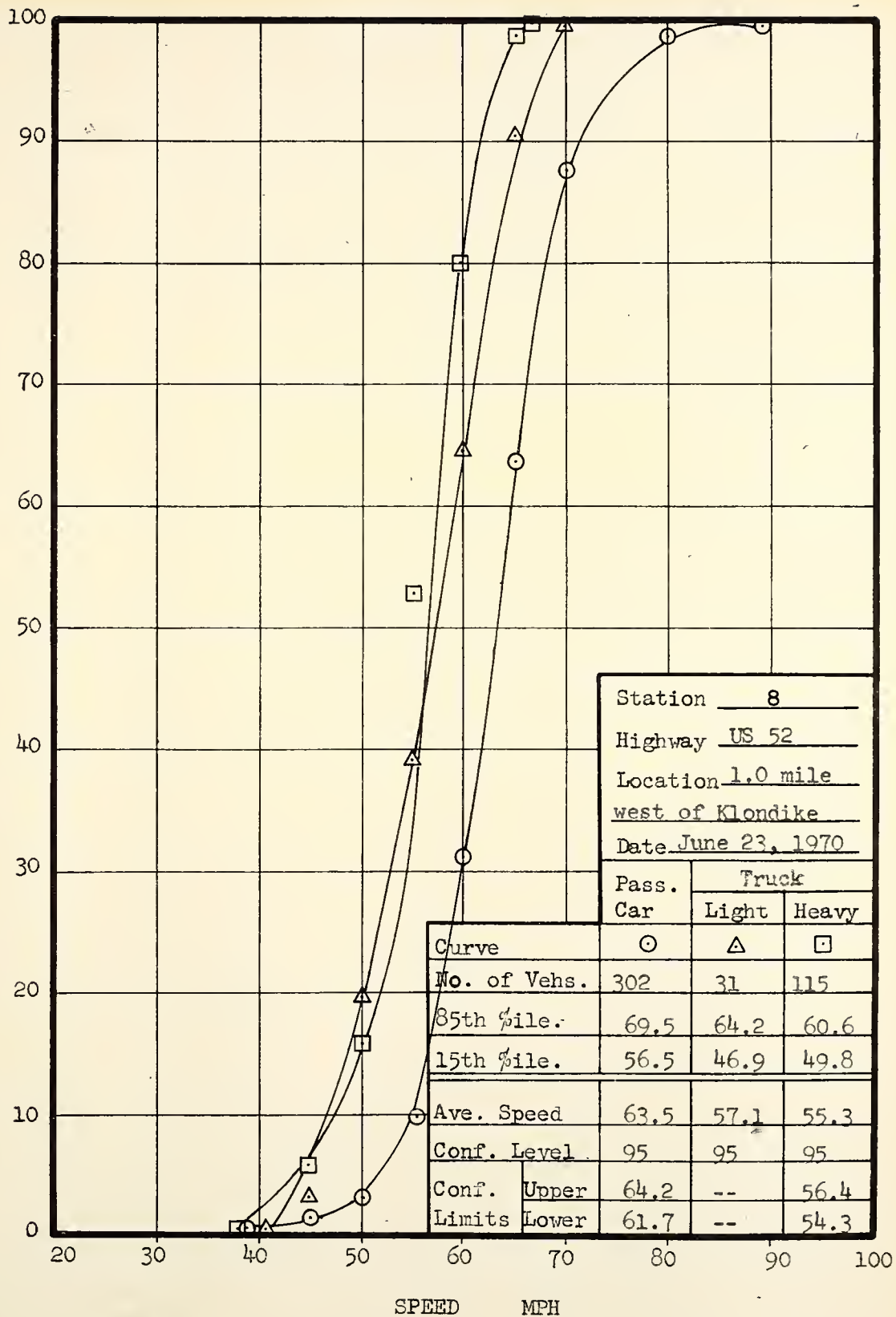
PERCENTILE



PERCENTILE



PERCENTILE

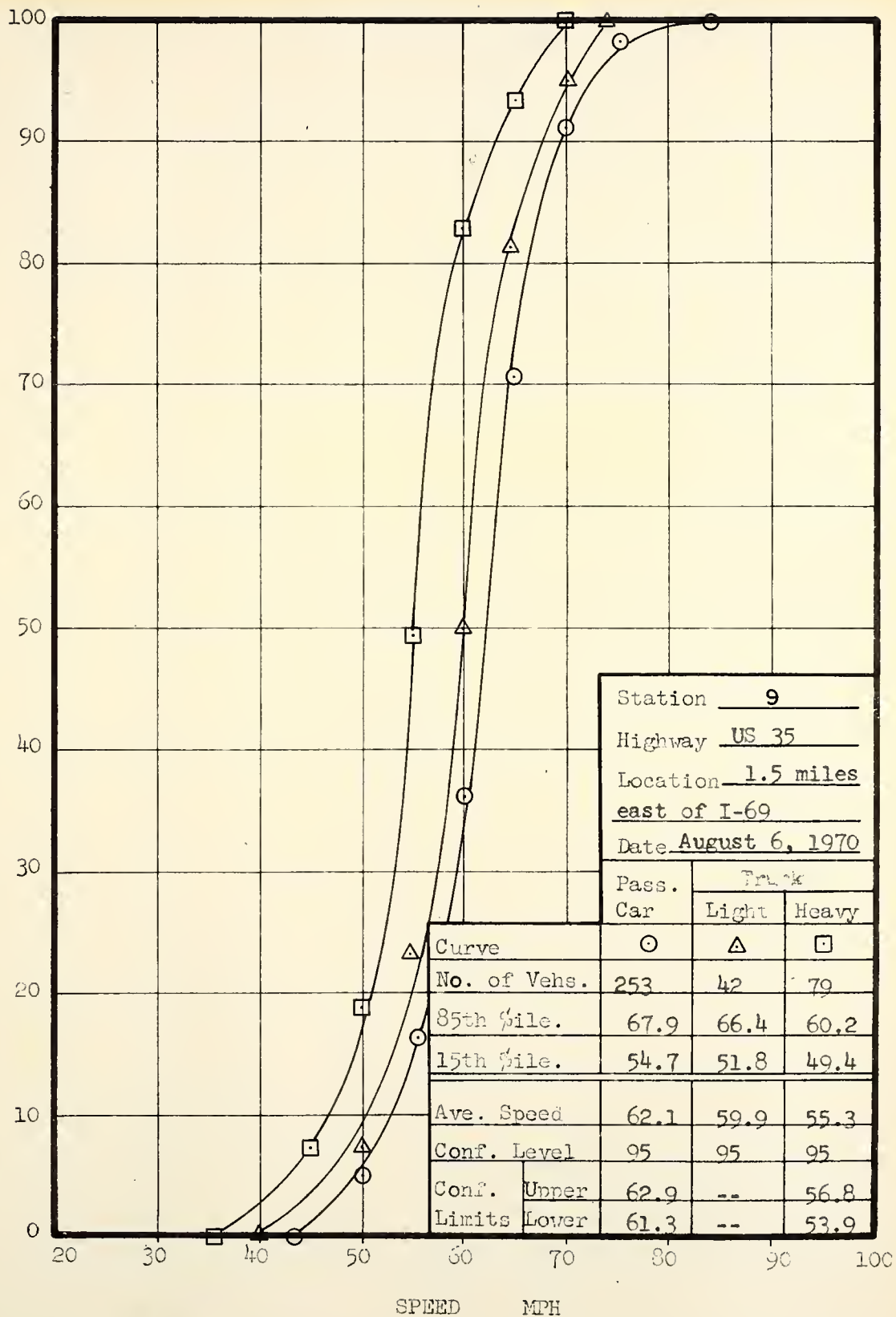


Station 8
 Highway US 52
 Location 1.0 mile
west of Klondike
 Date June 23, 1970

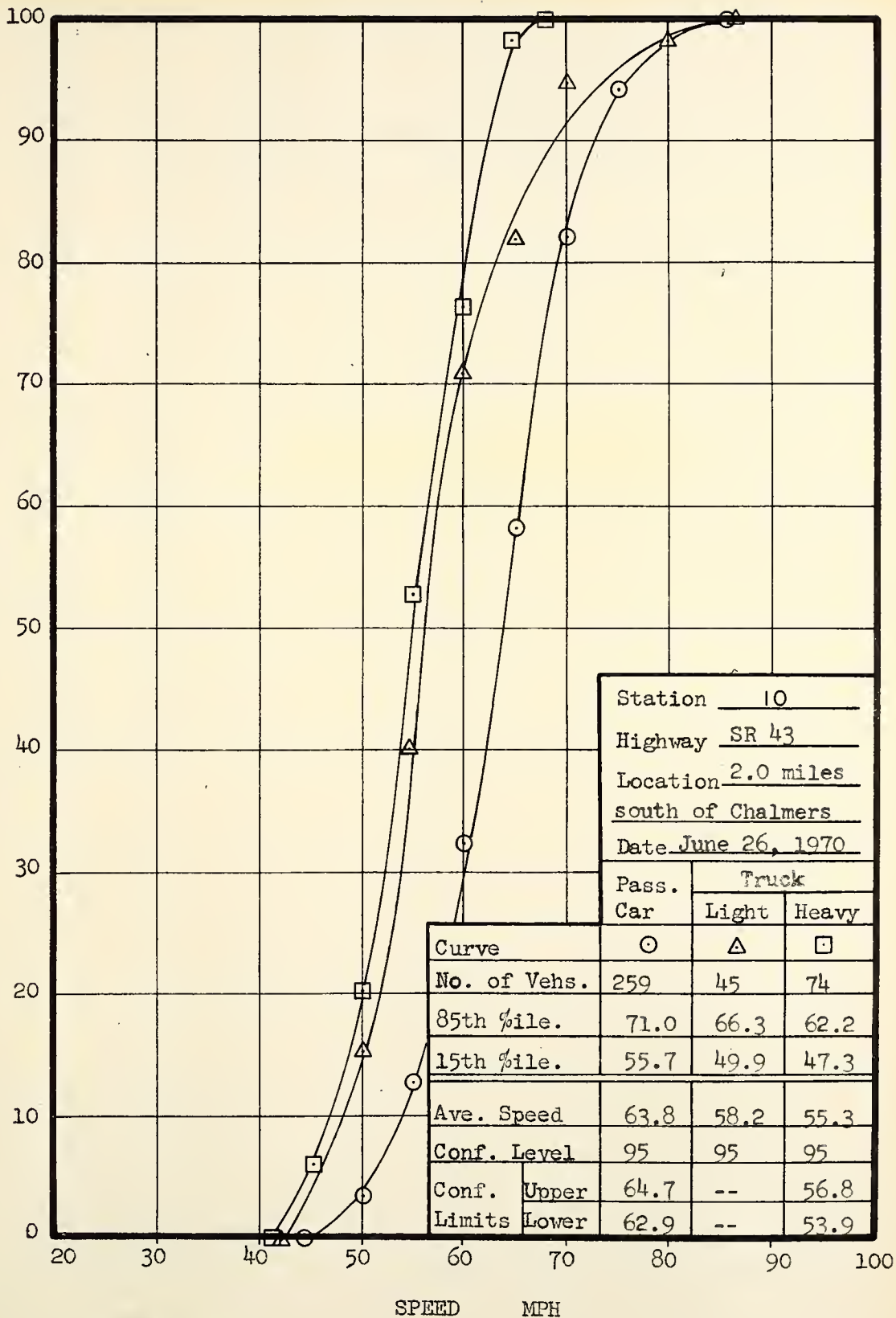
| | Truck | |
|-----------|-------|-------|
| | Light | Heavy |
| Pass. Car | | |

| | | | |
|--------------|------|------|------|
| Curve | ○ | △ | □ |
| No. of Vehs. | 302 | 31 | 115 |
| 85th %ile. | 69.5 | 64.2 | 60.6 |
| 15th %ile. | 56.5 | 46.9 | 49.8 |
| Ave. Speed | 63.5 | 57.1 | 55.3 |
| Conf. Level | 95 | 95 | 95 |
| Conf. Limits | | | |
| Upper | 64.2 | -- | 56.4 |
| Lower | 61.7 | -- | 54.3 |

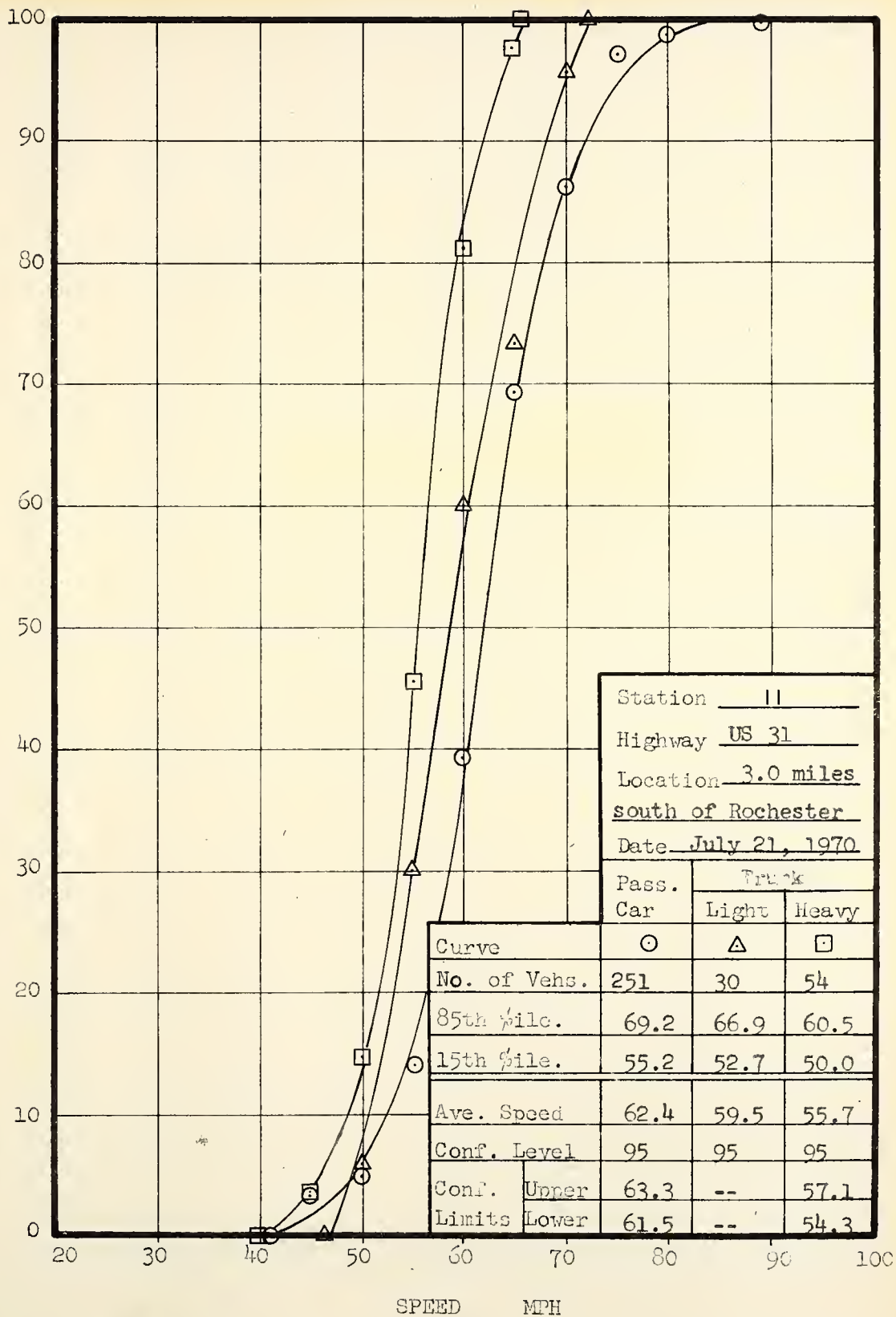
PERCENTILE



PERCENTILE



PERCENTILE



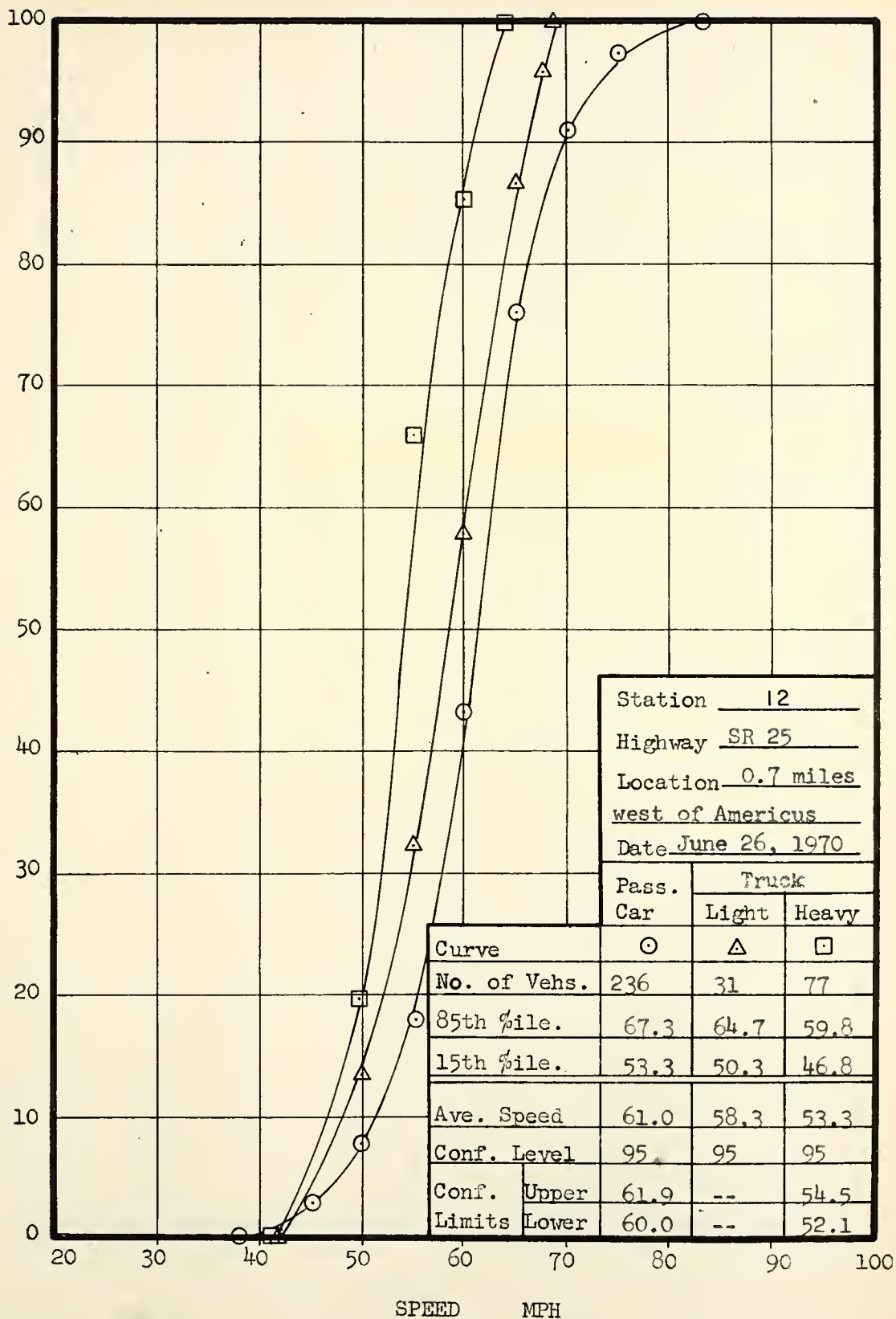
Station 11
 Highway US 31
 Location 3.0 miles
south of Rochester
 Date July 21, 1970

Pass. Car

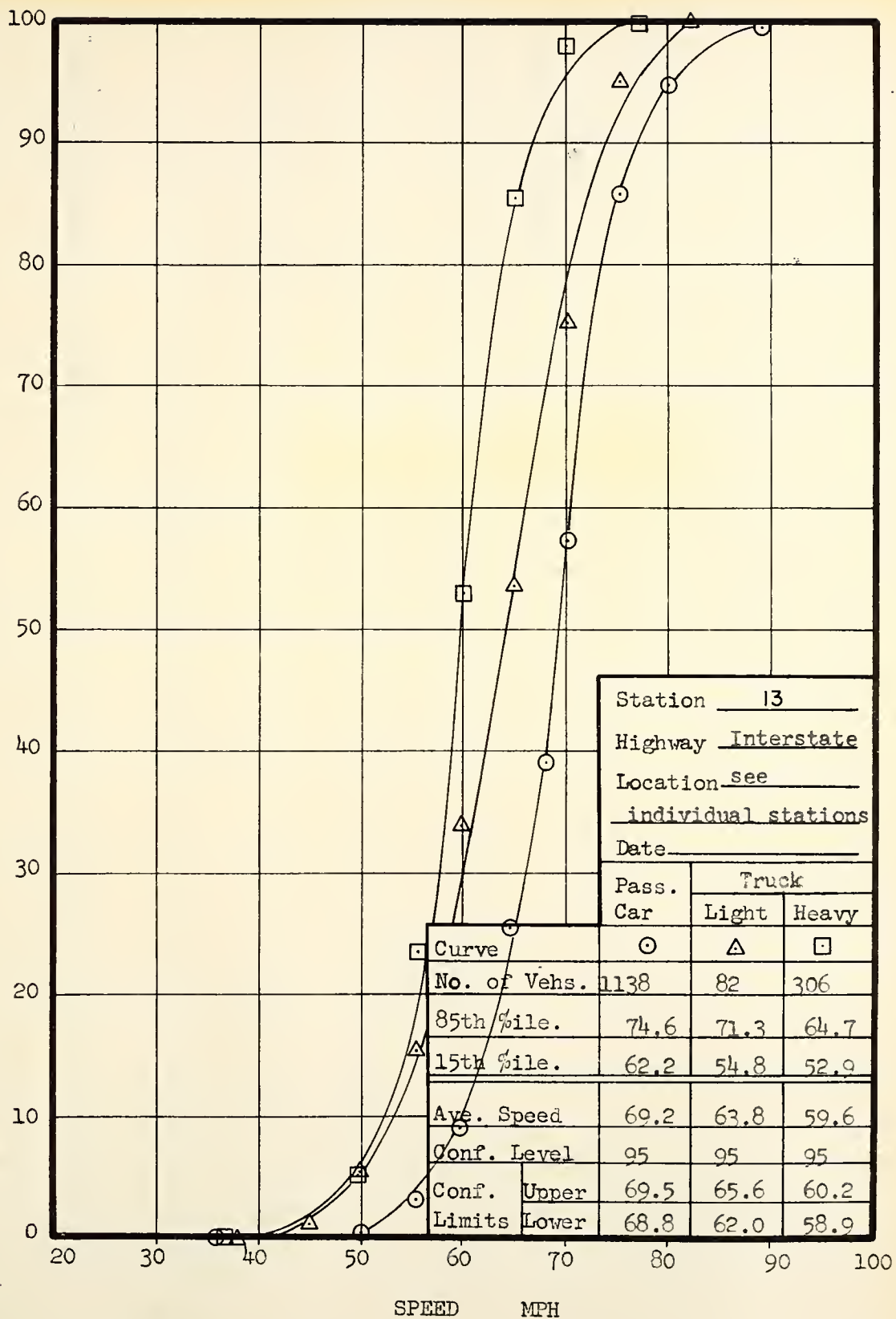
Truck
 Light Heavy

| | | | |
|--------------------|------|------|------|
| Curve | ○ | △ | □ |
| No. of Vehs. | 251 | 30 | 54 |
| 85th %ile. | 69.2 | 66.9 | 60.5 |
| 15th %ile. | 55.2 | 52.7 | 50.0 |
| Ave. Speed | 62.4 | 59.5 | 55.7 |
| Conf. Level | 95 | 95 | 95 |
| Conf. Limits Upper | 63.3 | -- | 57.1 |
| Conf. Limits Lower | 61.5 | -- | 54.3 |

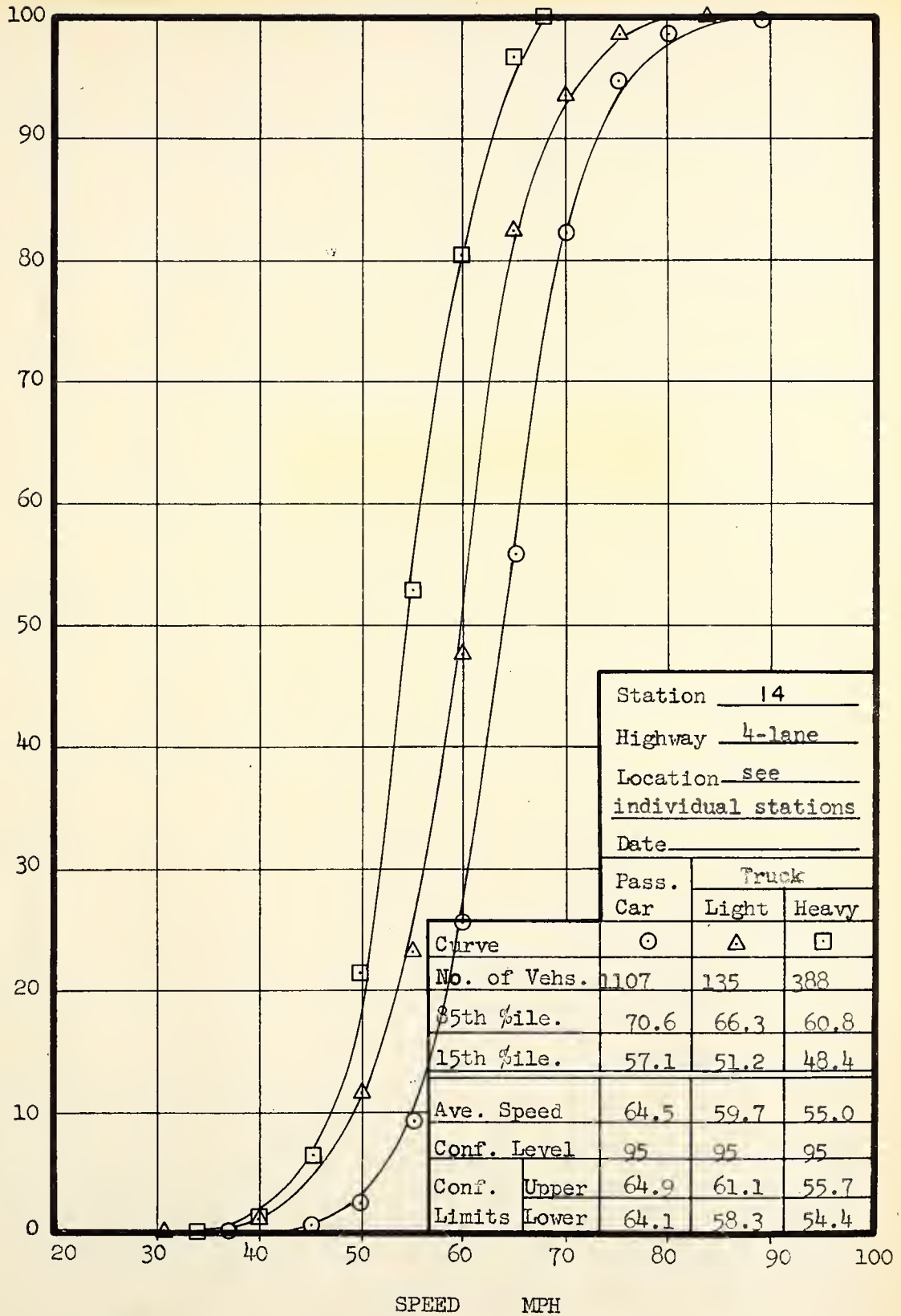
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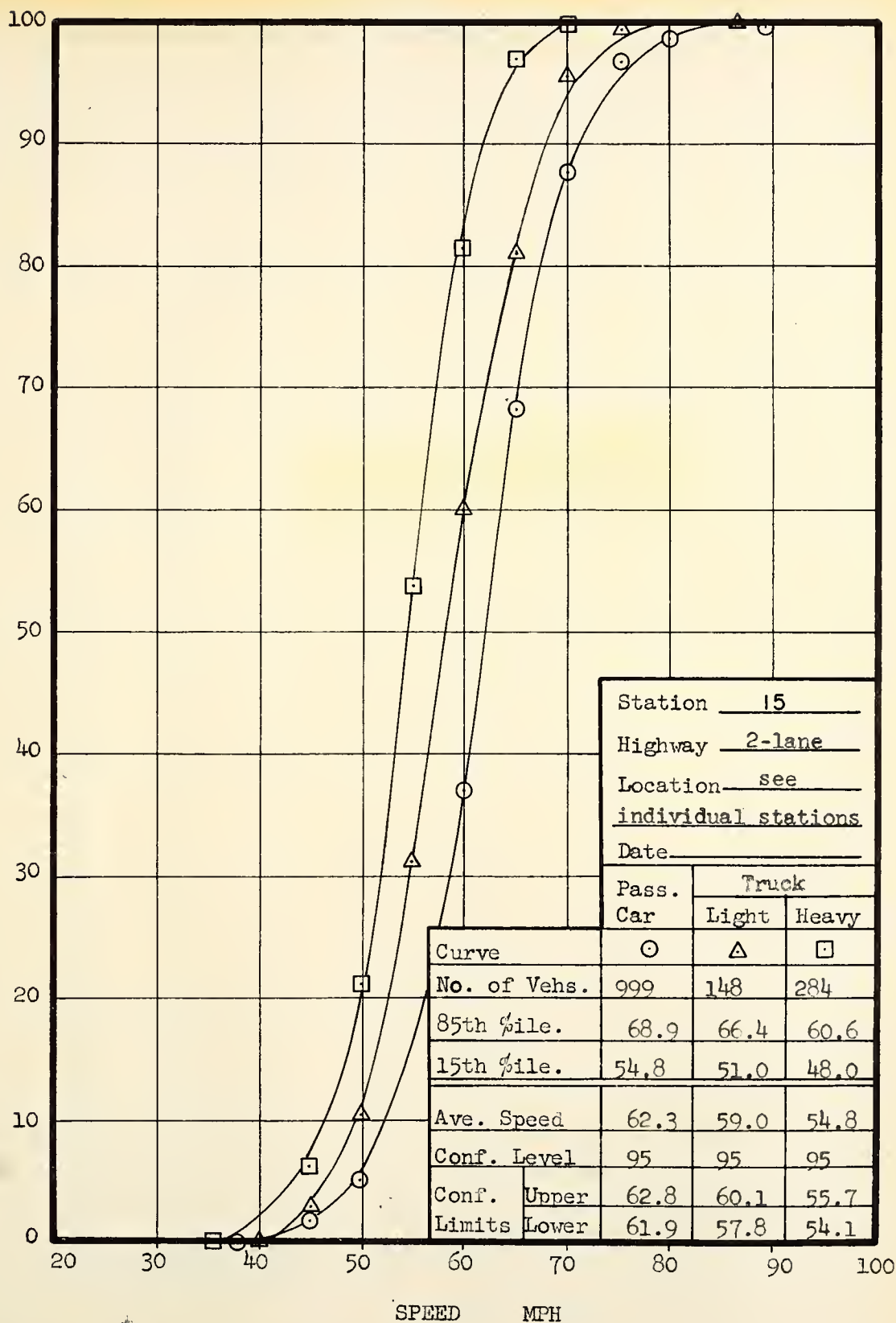
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PERCENTILE



Station 15

Highway 2-lane

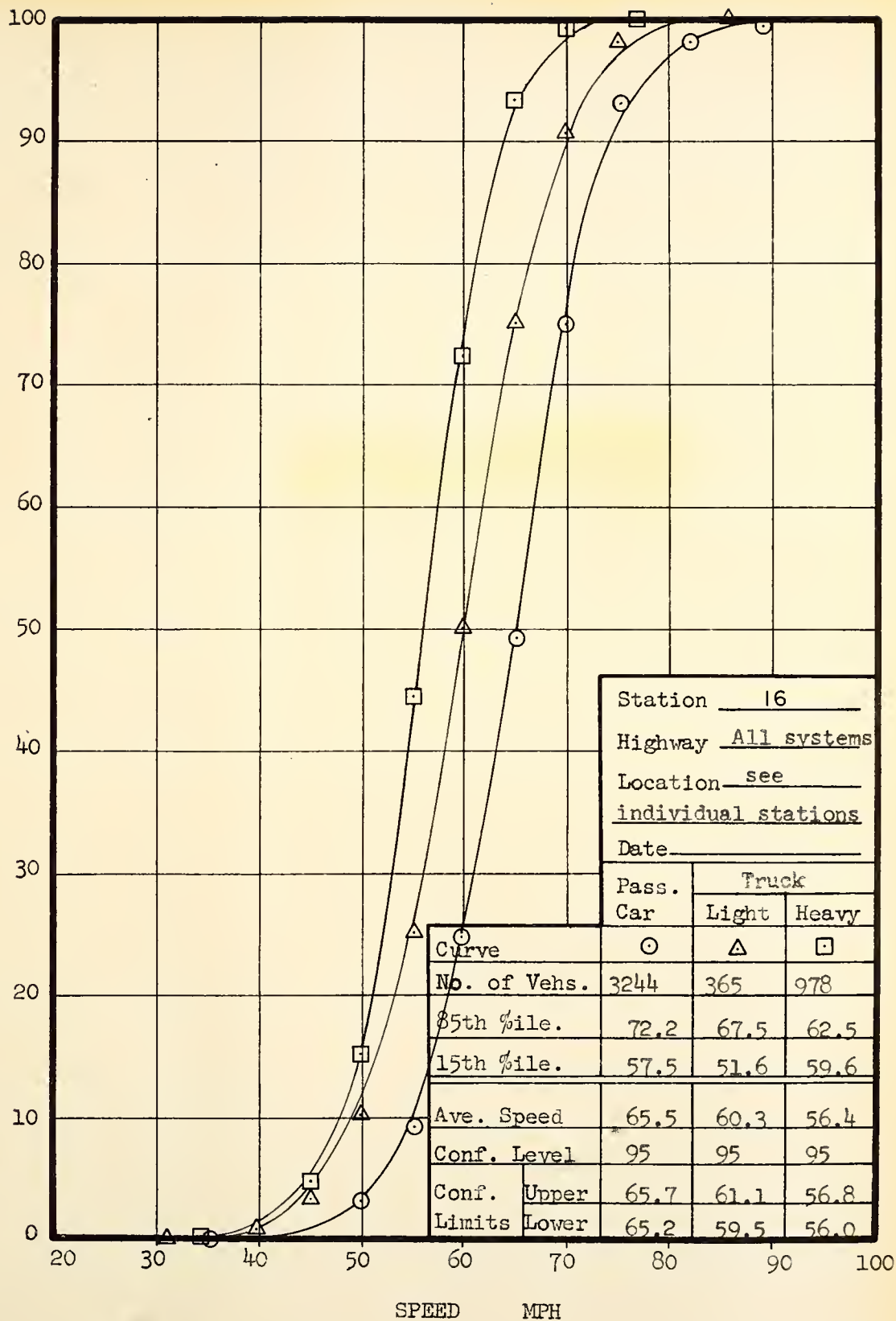
Location see

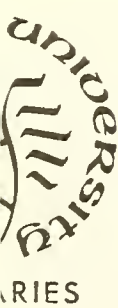
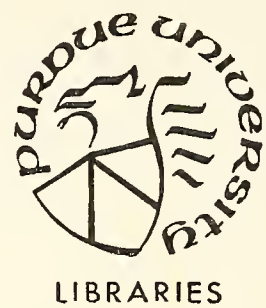
individual stations

Date _____

| | Pass. Car | Truck | |
|-------|--------------|-------|-------|
| | | Light | Heavy |
| Curve | ○ | △ | □ |

PERCENTILE







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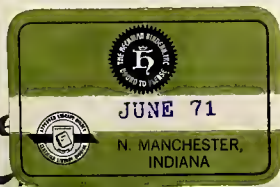


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